



Prevention and Mitigation of Weaponized Viruses Through NutriGenomics: A New Model

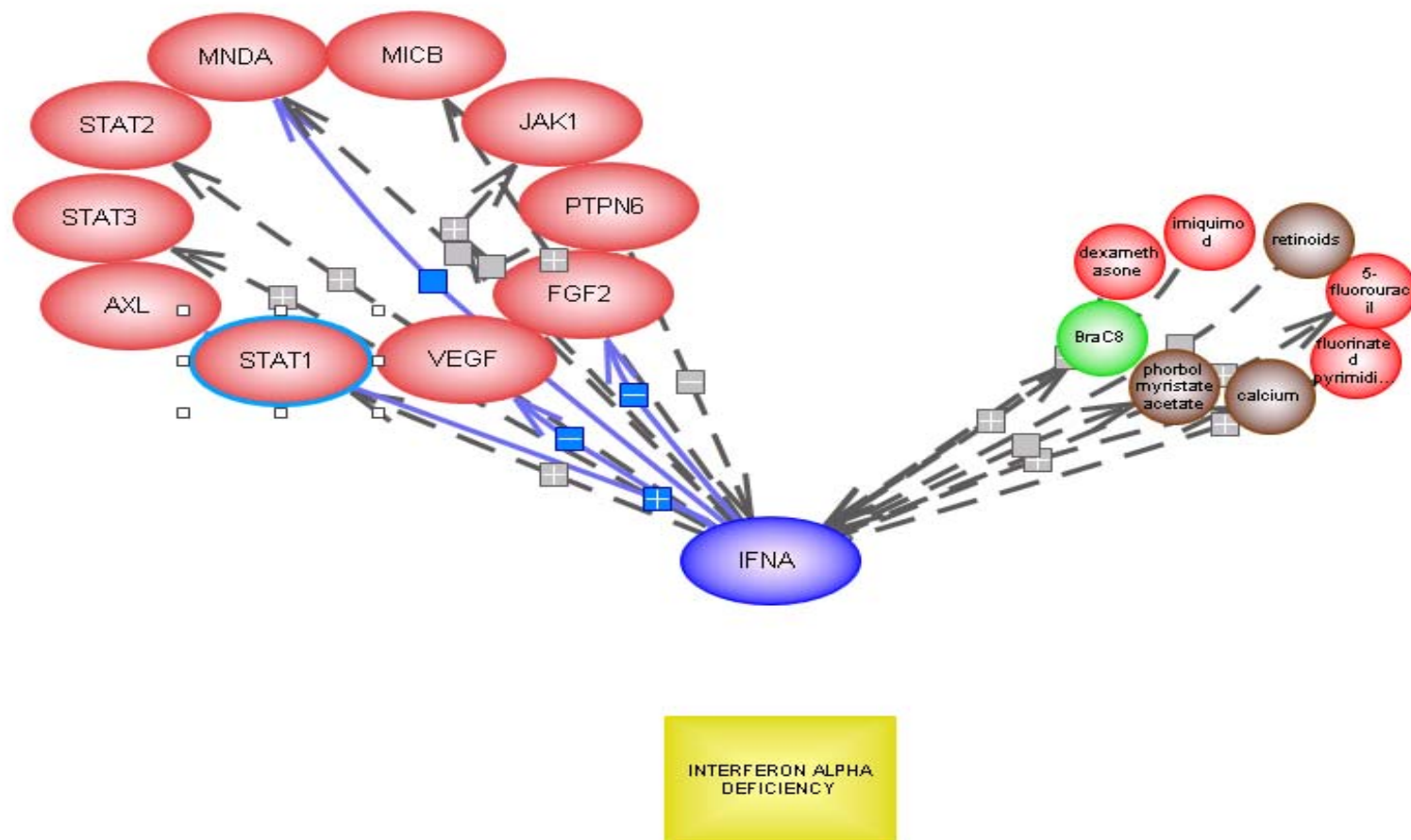
Fredric D. Abramson, Ph.D., S.M., Esq.

November 17, 2003

Presented at the 2003 Joint Services Scientific Conference on
Chemical and Biological Defense Research

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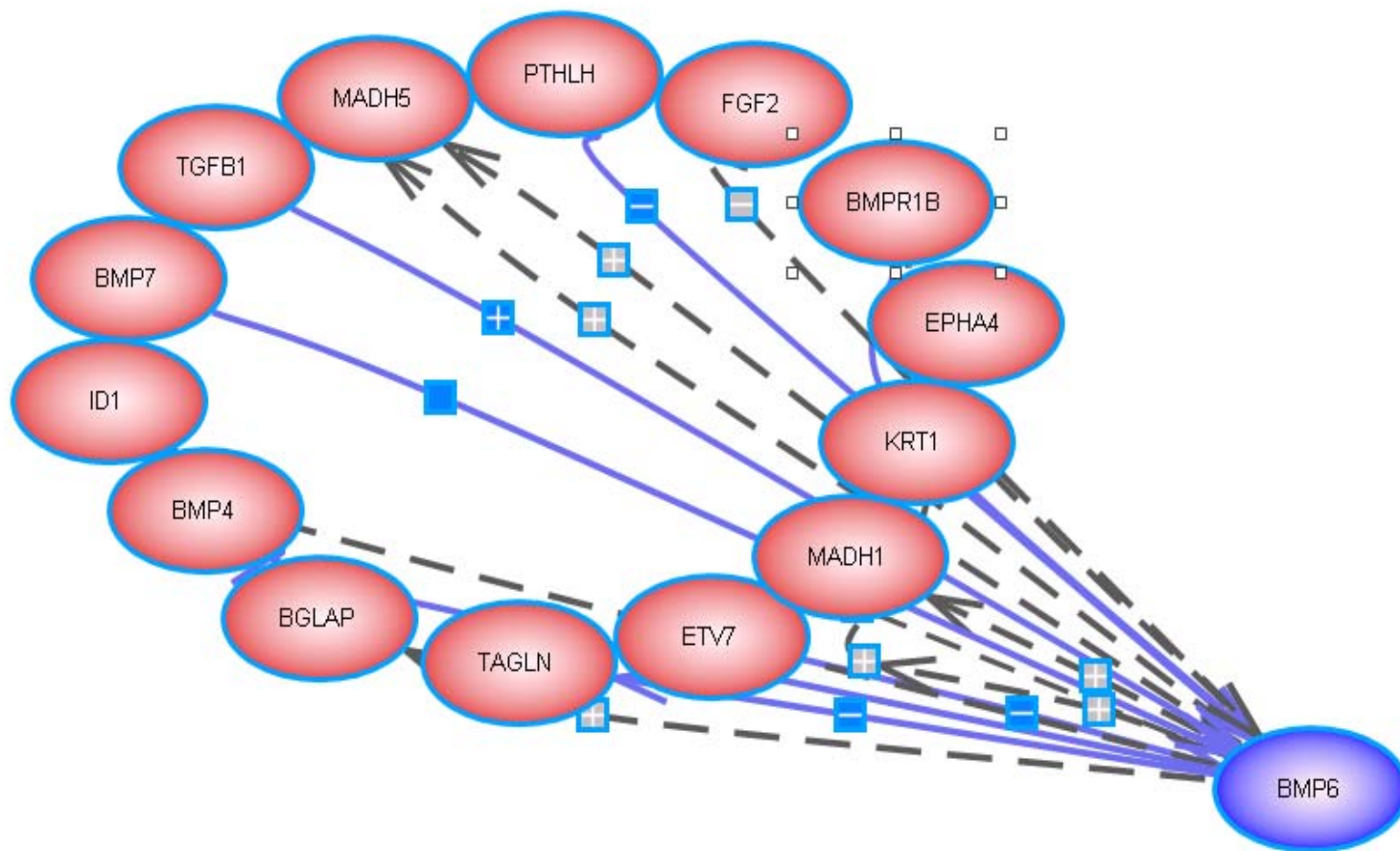
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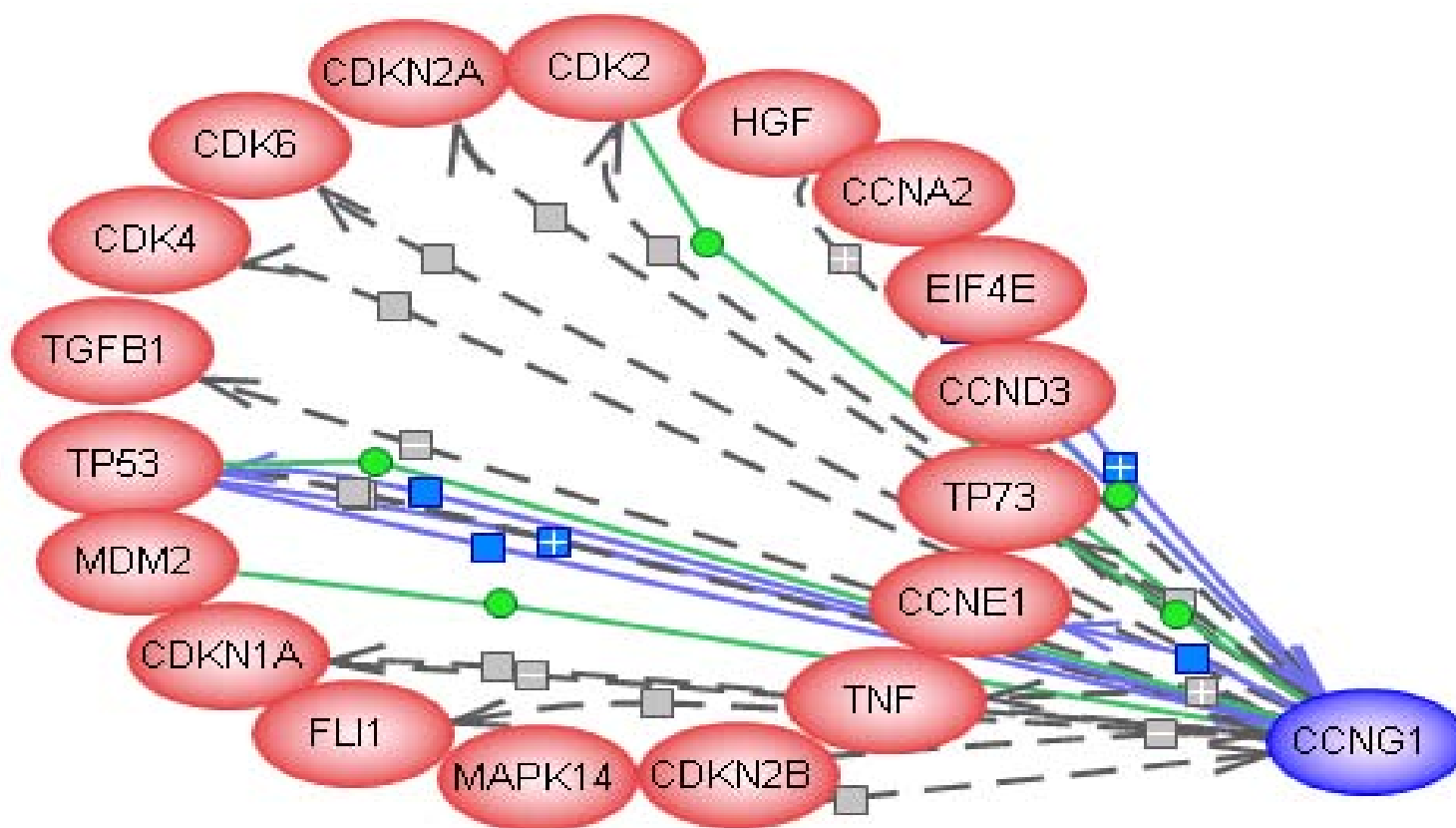
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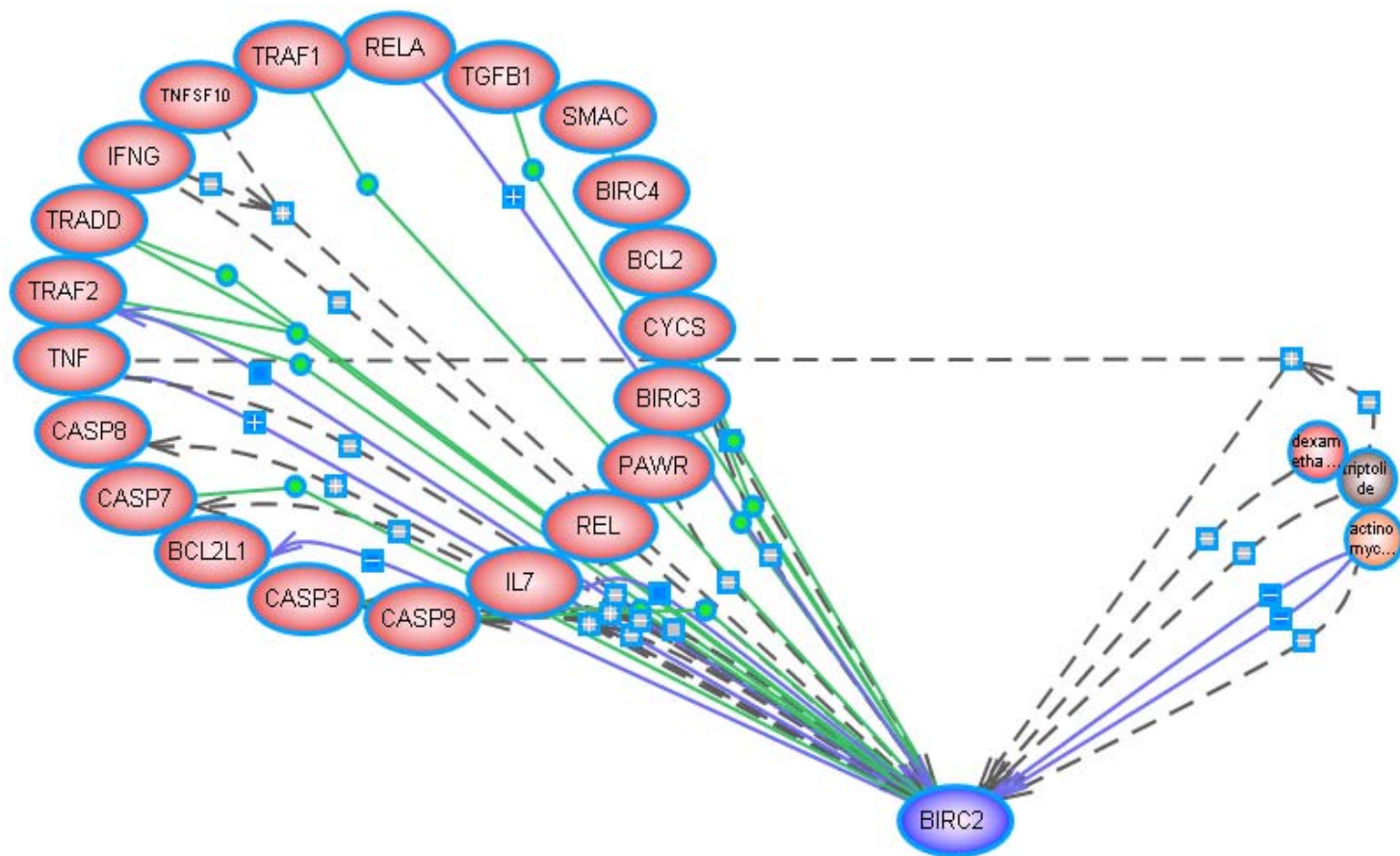
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BIRC2

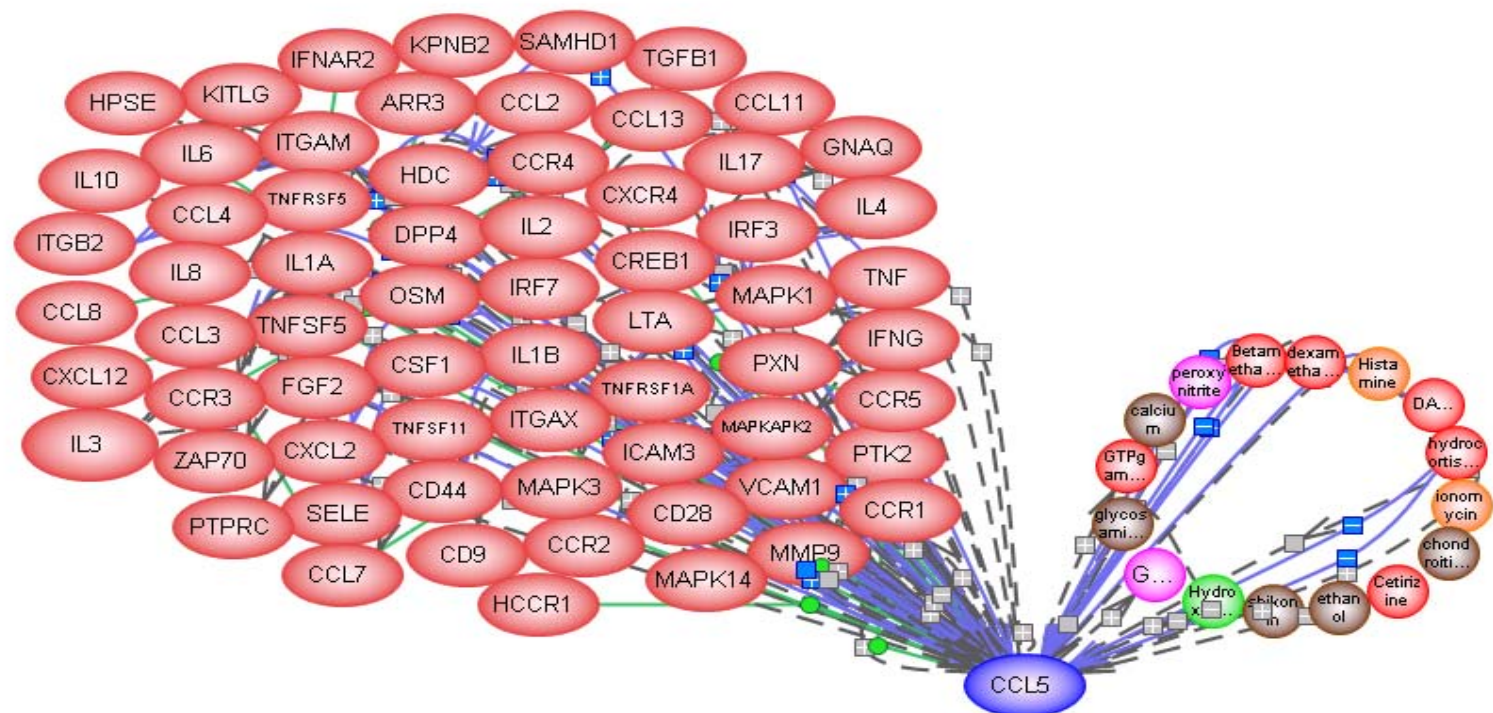


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CCL5



RAPID
PROGRE
SSION...

DELAYED
PROGRE
SSION...



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Some of the 359 Chemical Constituents in the Tomato

From the Handbook of Phytochemical Constituents of GRAS Herbs

<ul style="list-style-type: none"> • ACETONE FR HUL • ARGININE 1-3,637 FR HUL USA • ARSENIC 0.00354-0-0425 FR USG • ASCORBIC-ACID 50-2,952 FR HUL USA • ASPARAGINE 300 FR HUL • ASPARTIC-ACID 1,230-20,332 FR USA • AUROZANTHIN FR NAP • BARIUM 0-60 FR USG • CADMIUM 0.005-1.7 AAS USG • CALCIUM 60-2.400 (-9.200) FR AAS HUL • BETA-CAROTENE 7-113 FR HUL USA • CHLORINE 510 FR WOI • CHROMIUM C-3 FR USG • COBALT 0-1.4 FR USG • COPPER 0.4-100 FR HUL USA USG • CYSTINE 120-1.984 FR USA • ETHANOL FR HUL • FORMIC-ACID FR HUL • FRUCTOSE 11,700 F RHUL • GLUCOSE 16,300 FR HUL • GLUTAMIC-ACID 90-54,053 FR HUL • GLYCERIC-ACID FR HHB • GLYCOLIC-ACID FR HHB • HISTIDINE 30-2,149 FR HUL • IRON 1-800 (3,000) FR HUL • LEAD 0,003-60 FR AAS USG • LINOLEIC-ACID-830-13,720 FR HUL USA • LYSINE 2-5,455 FR HUL USA • MAGNESIUM 70-6,000 FR HUL USA USG 	<ul style="list-style-type: none"> • MANGANESE 0.6-100 FR AAS HUL USG • MERCURY 0.00069-0.0017 FR USG • METHANOL FR HUL • MOLYBDENUM 0-6 FR USG • NIACIN 6-99 FR USA • NICKEL 0.01-5 FR AAS USG • OXALIC-ACID 36-263 FR WBB • PECTIN 100-31,000 FR HUL WOI • PHENYLALANINE 72-3,801 FR HUL USA • POTASSIUM 780-58,800 (-102,000) FR AAS • PROPIONIC-ACID FR HHB • PYRUVIC-ACID FR HUL • RIBOFLAVIN 1-8 FR USA • SELENIUM 0.00069-0.034 FR USG • SILVER 0-1.4 FR USG • SODIUM 10-6.600 FR HUL • STRONTIUM 0-140 FR USG • SUCCINIC-ACID FR HHB • SUCROSE FR HUL • SULFUR 107-2,330 FR AAS HHB USG • TITANIUM 0-140 FR USG • ALPHA-TOCOPHEROL 7-143 FR TOT • TYROSINE 38-2,479 FR HUL USA • UBIQUINONE-10 60 TC NAP • VALINE 1-3.801 FR HUL USA • VANADIUM 0-6 FR USA • ZINC 1-120 FR HUL USA USG
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Network Evaluation II - Ingenuity

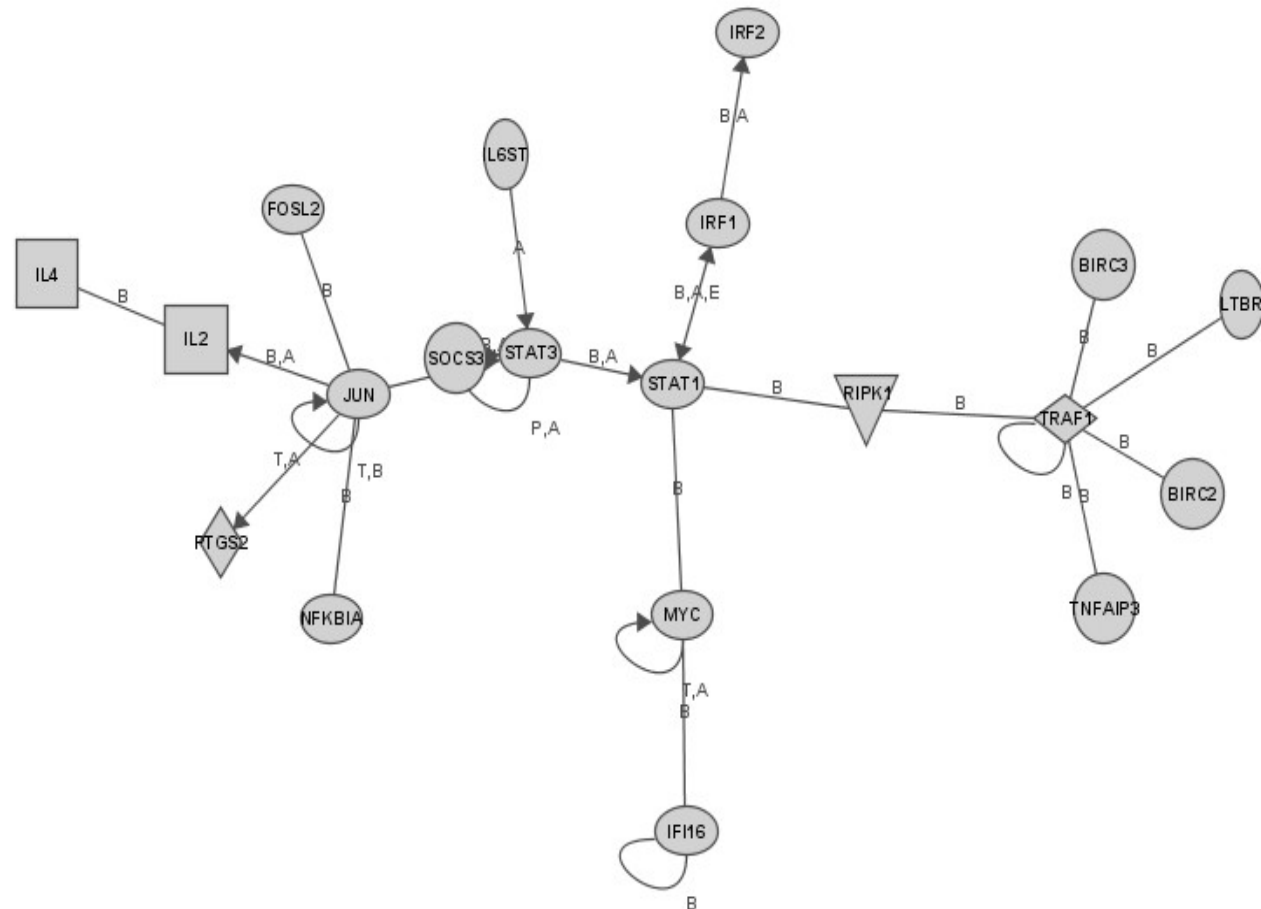
- 120 Mapped Genes in Literature
- 82 Ingenuity system
- 189 Total Networked Genes
- 107 new connections
- 24 Networks

8 of 24 Networks

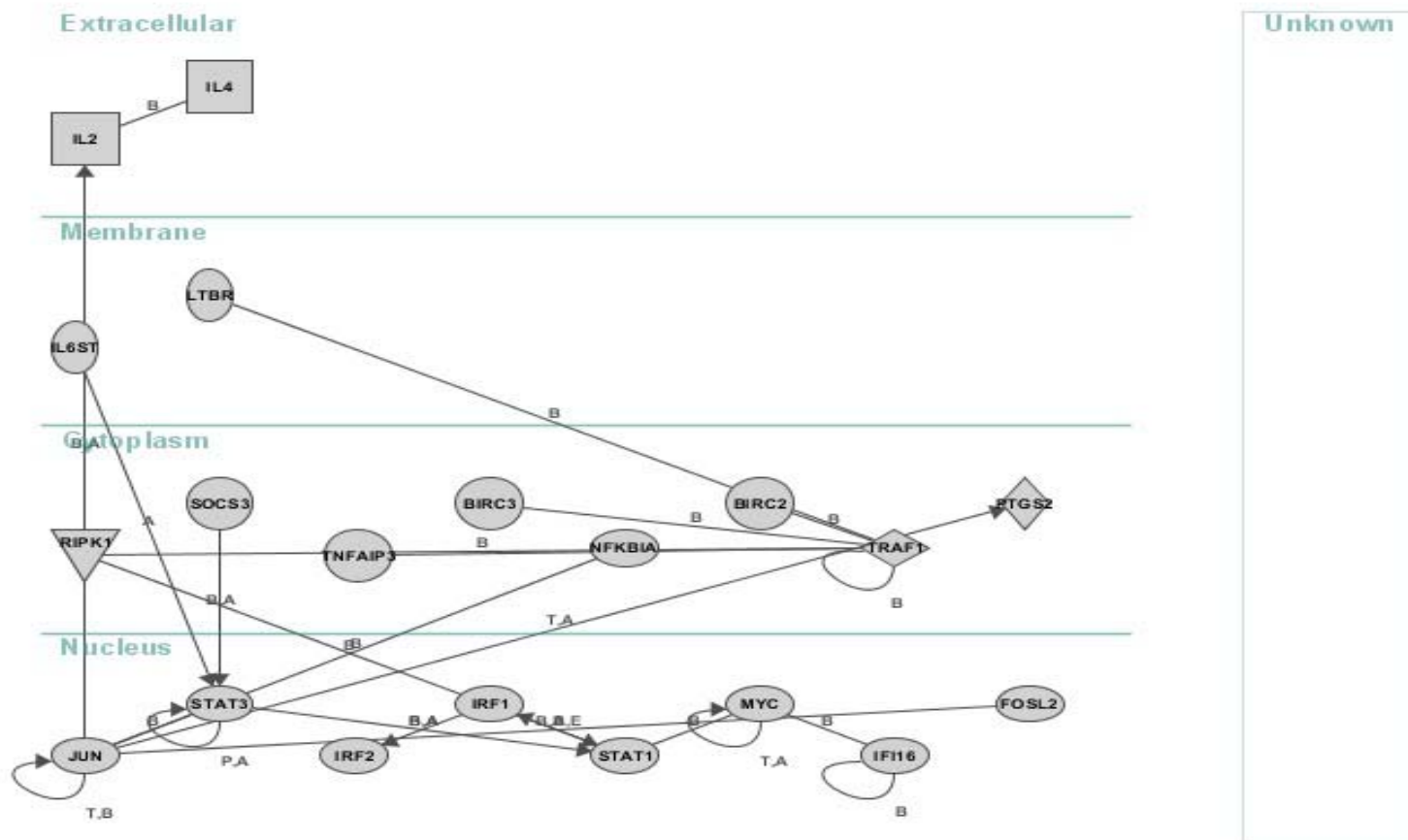
1	BIRC2, BIRC3, FOSL2, IFI16, IL2, IL4, IL6ST, IRF1, IRF2, JUN, LTBR, MYC, NFKBIA, PTGS2, RIPK1, SOCS3, STAT1, STAT3, TNFAIP3, TRAF1	20
2	CCBP2, CCL3, CCL4, CCL5 , CCR4, CREBBP, CTSD, EEF1G, EEF2 , HMGA1, IFNA1, IFNA4, IFNB1, IRF3, IRF7 , KLF13, MYCN, NCL, NOS2A, RPS6	10
3	ATF2, BTRC, C-REL, EP300, FOS, GATA3, HNRPU, IL10, IL13 , IL1RL1, IL8, MAPK12 , NFKB1, NMI , RELA, RPS18, SOD2 , TBP, UBE1 , UTF1	9
4	CDK4, CDKN1A, CEBPB, CUGBP1 , CYFIP1, CYFIP2, FMR1, FXR1, FXR2 , GANKYRIN, IL6, MAPK6, PRKCG, PSMA3 , PSMB1, PSMB7, PSMB8, PSMB9, PSME1, PSME2	7
5	CCNB1-RS1, CCNG1, CDK6 , CDKN2D, DDB2, E2F1, ESR1, ISGF3G , NDN, PIASX, POLA, POLA2, PRIM2A, PRKR , RAD54L, RANGAP1 , RRM2, TFAP2C , TP53, UBE2I	6
6	CXCL12, DCN, DPP4, FN1, HOXD3, IGF2R, IL1A, IL1B , IL1R1, IL1R2, MMP12, MMP16, MMP2, PLG, SPARC, TAC1, TGM2, TNF, TNFRSF6 , UMOD	6
7	BARD1, BRCA1, CSTF1, CSTF2 , CSTF3, CUL2, IFI27, IFNG , IGF1R, INSR, JAK1, JAK2, NFATC2, PRLR, RBX1, SOCS1, SOCS2, TAP1 , TCEB1, TCEB2	6
24	BUB1B, BUB3, CDC20, CDC27, CSF2RB, E2F4, INSR, KIF1B, MAD1L1, MAD2L1 , MAD2L2, UBD	1



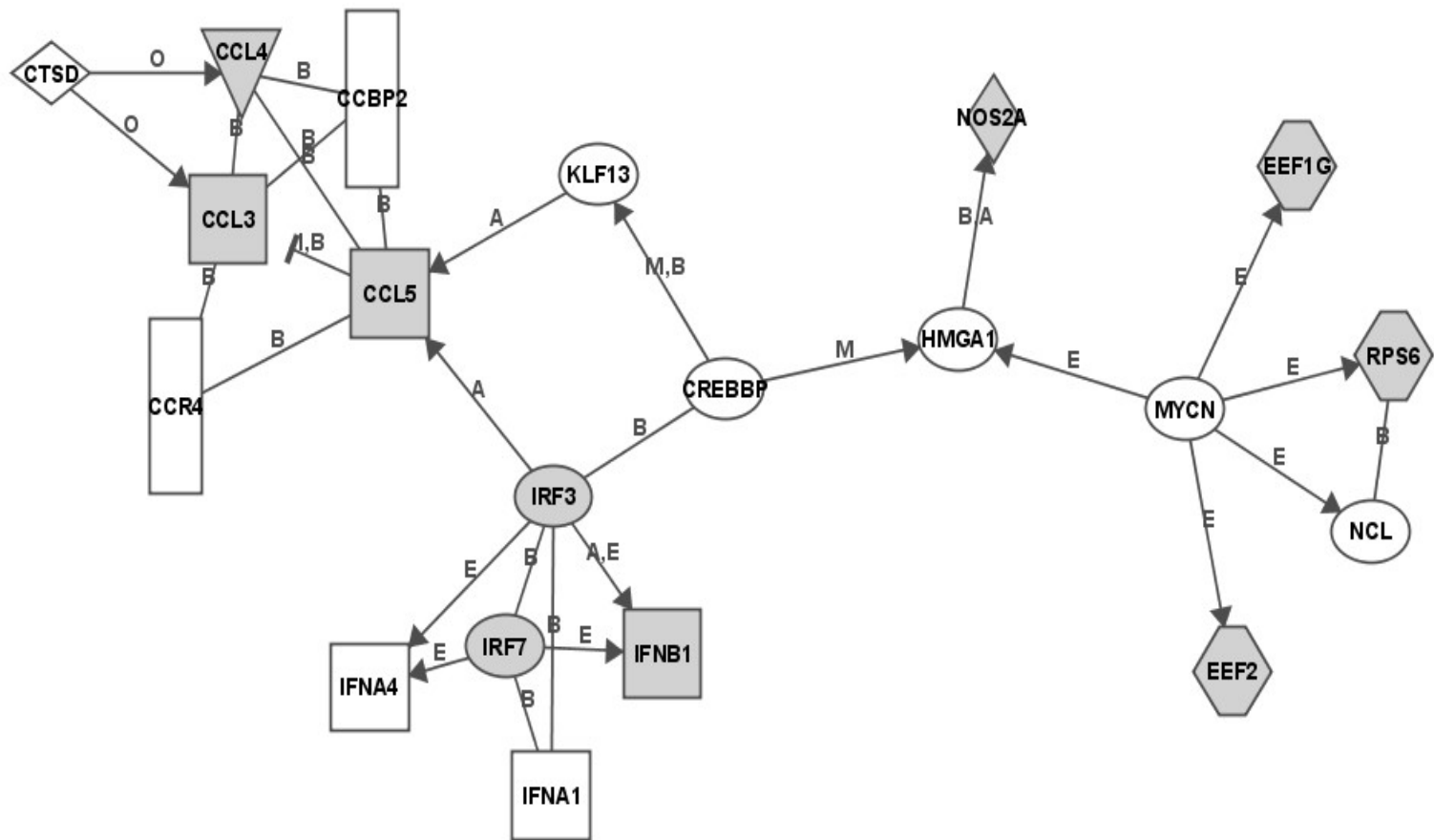
Network 1 – 20 genes



Network 1 – Cellular Layout

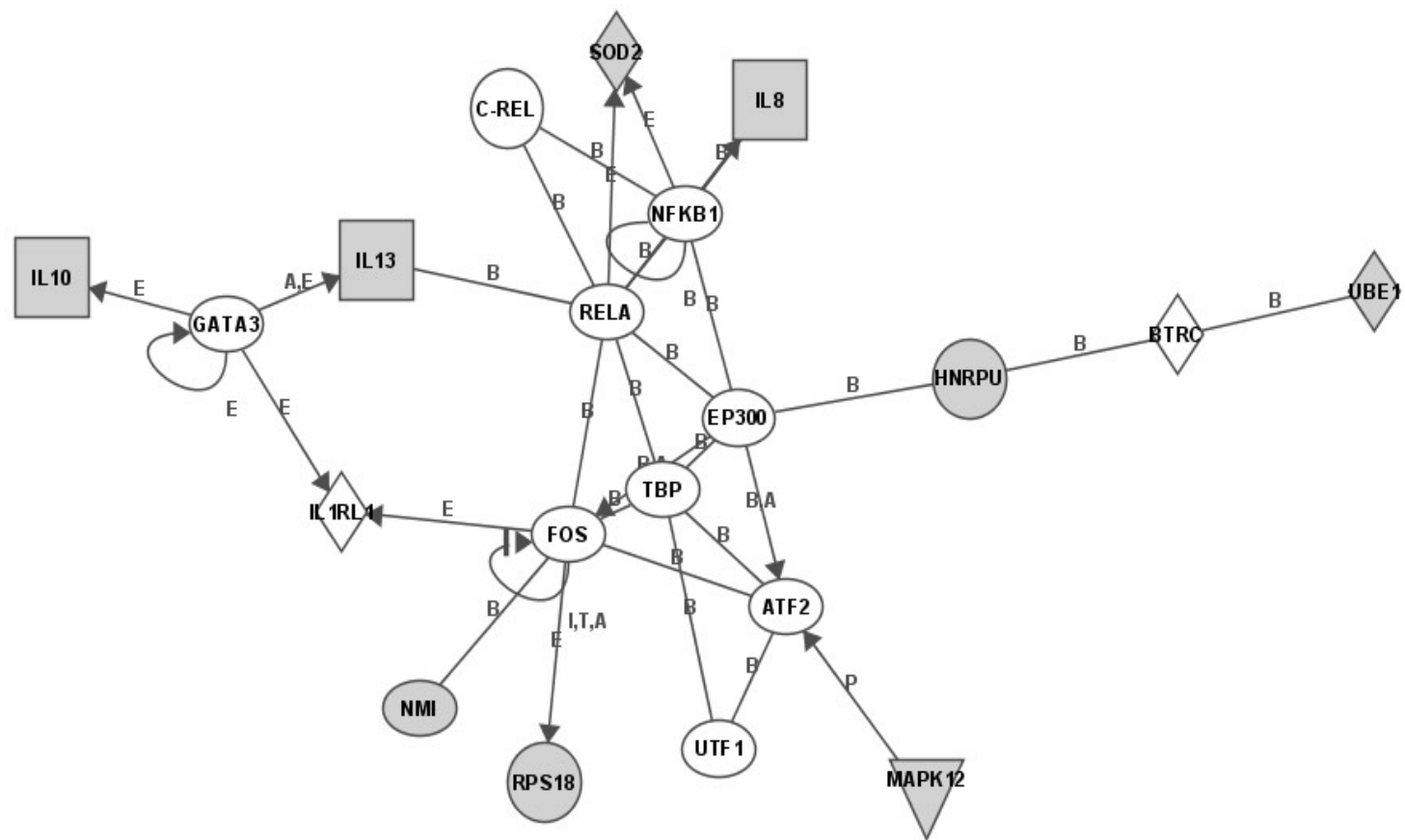


Network 2 – 20 genes

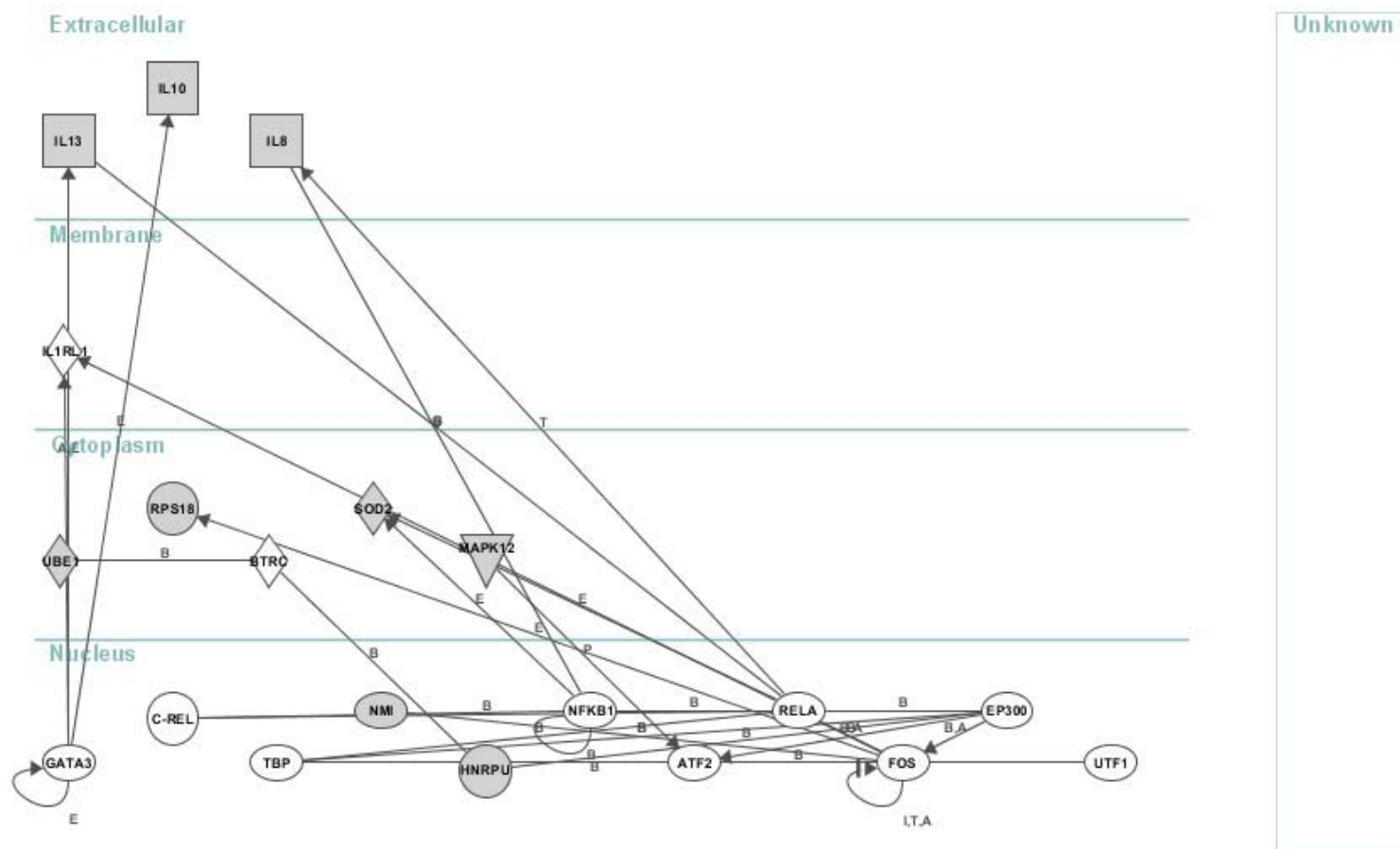




Network 3 – 20 genes



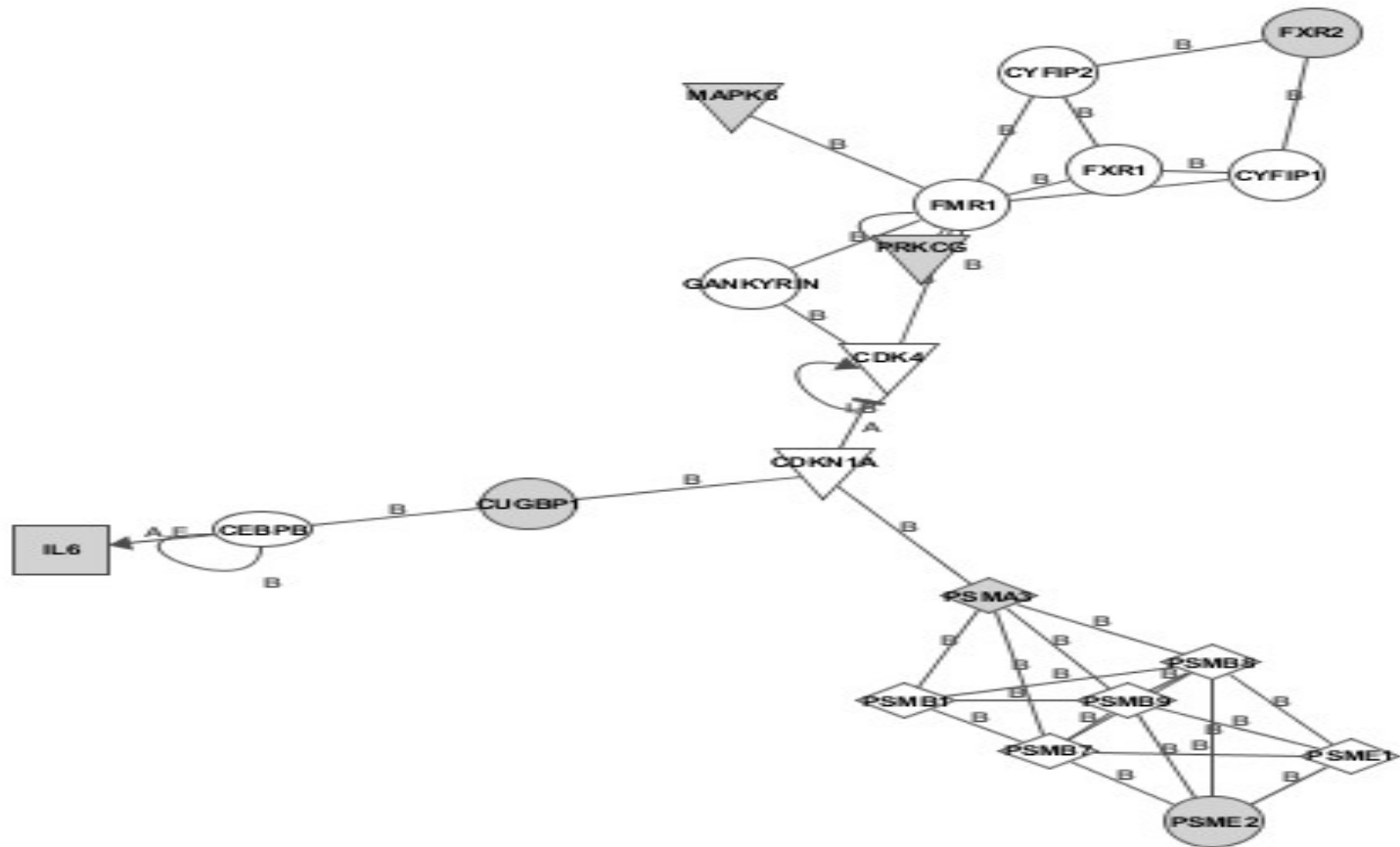
Network 3 – Cellular Layout



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Network 4 – 20 genes

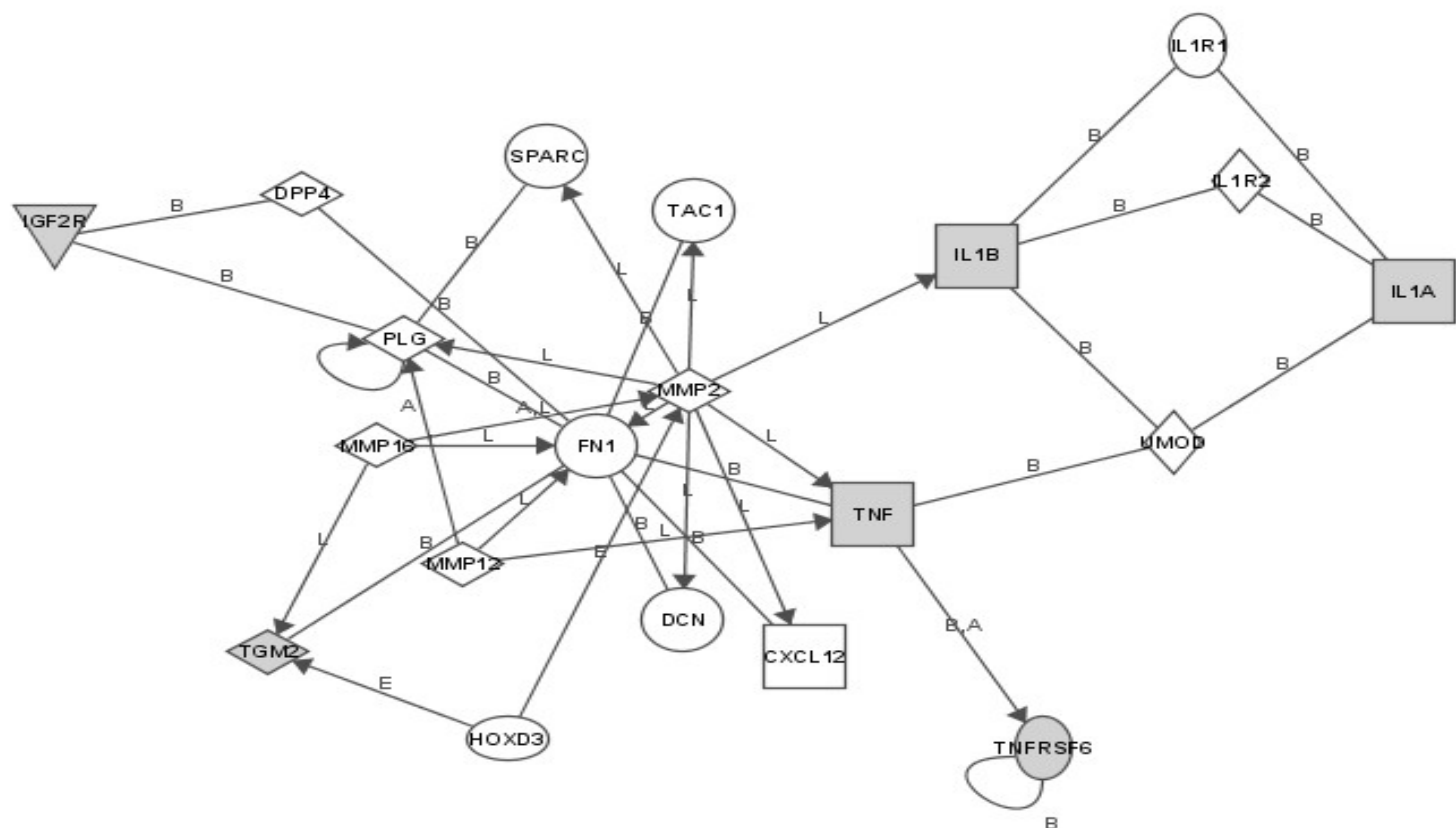








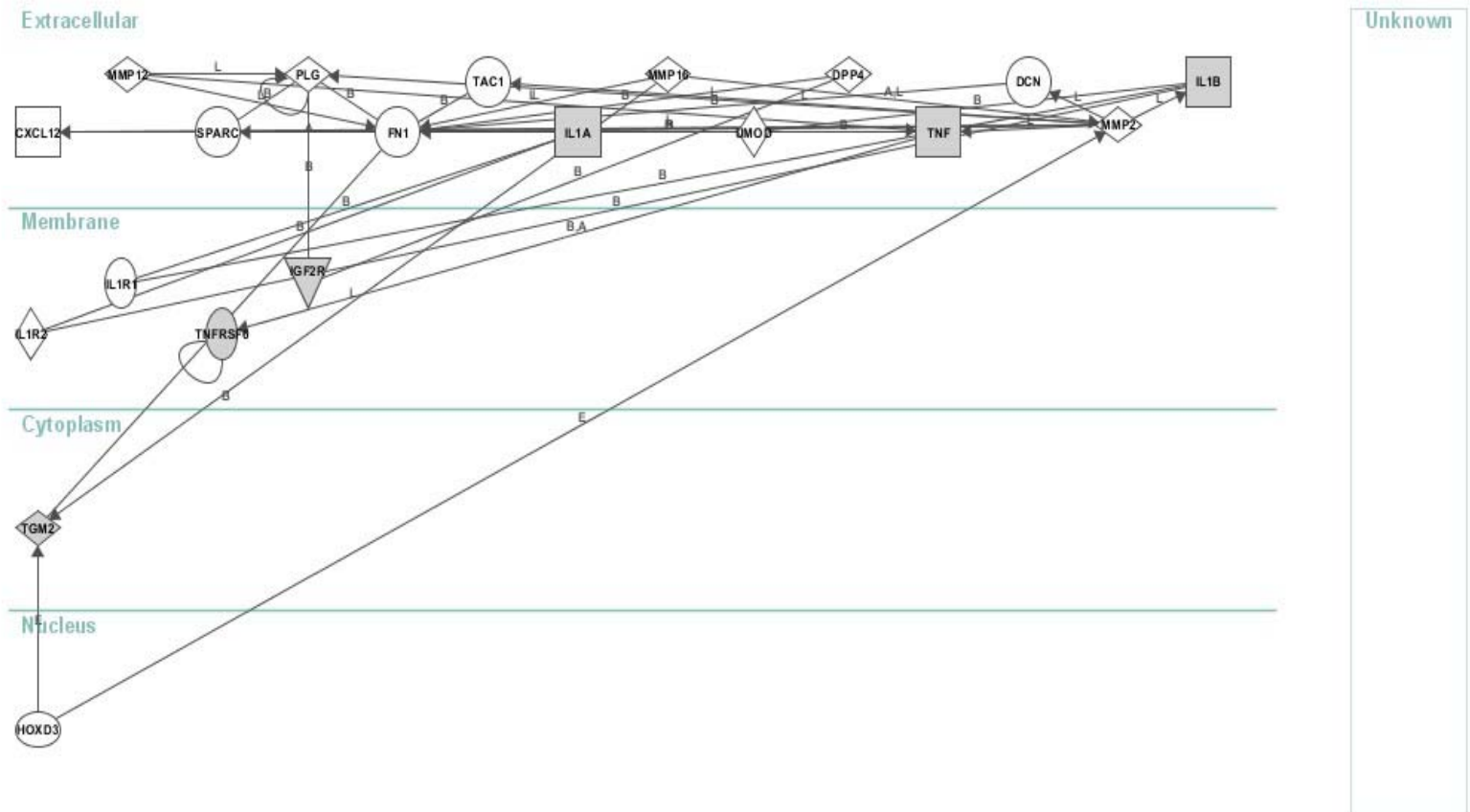
Network 6 – 20 genes



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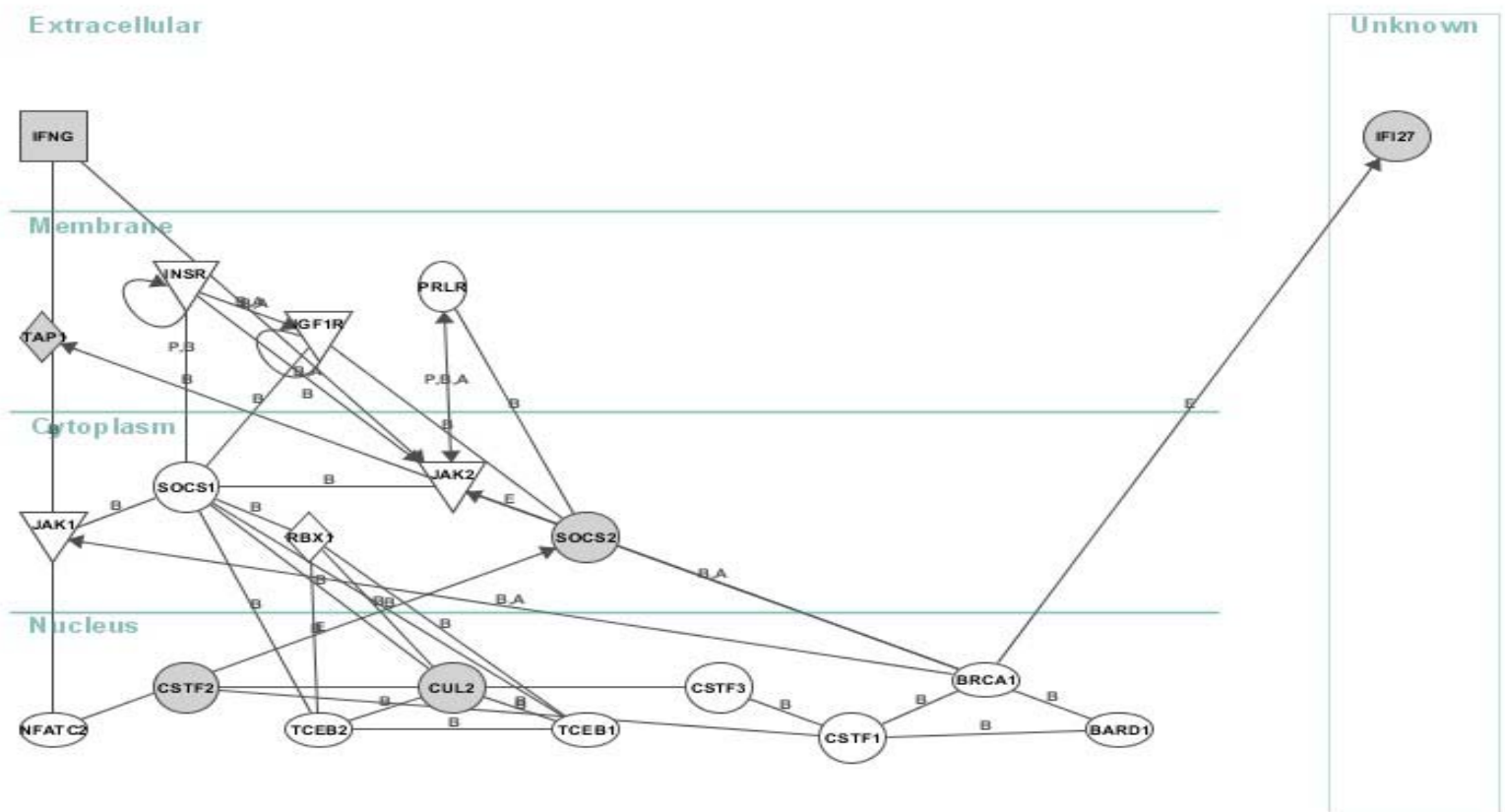
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Network 6 – Cellular Layout

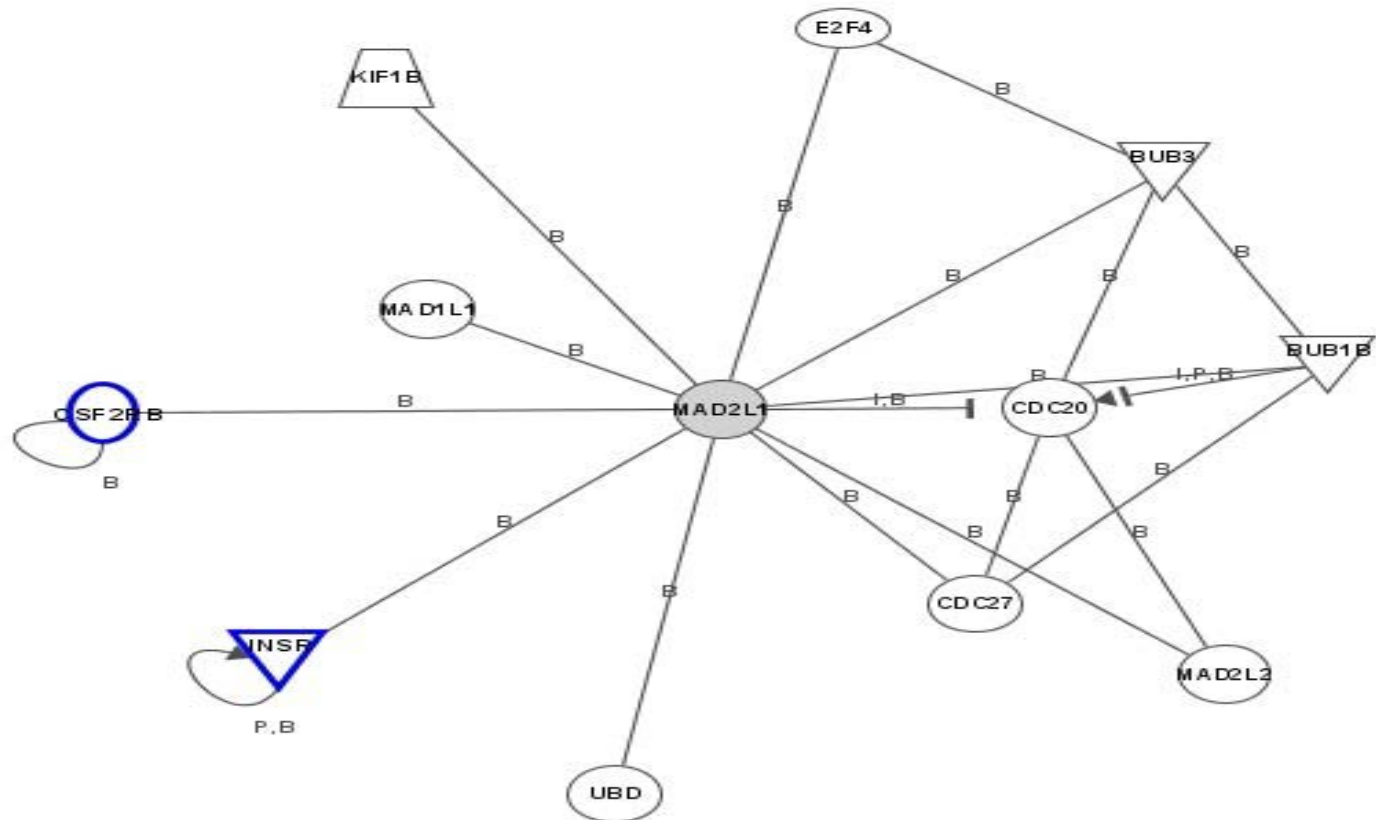




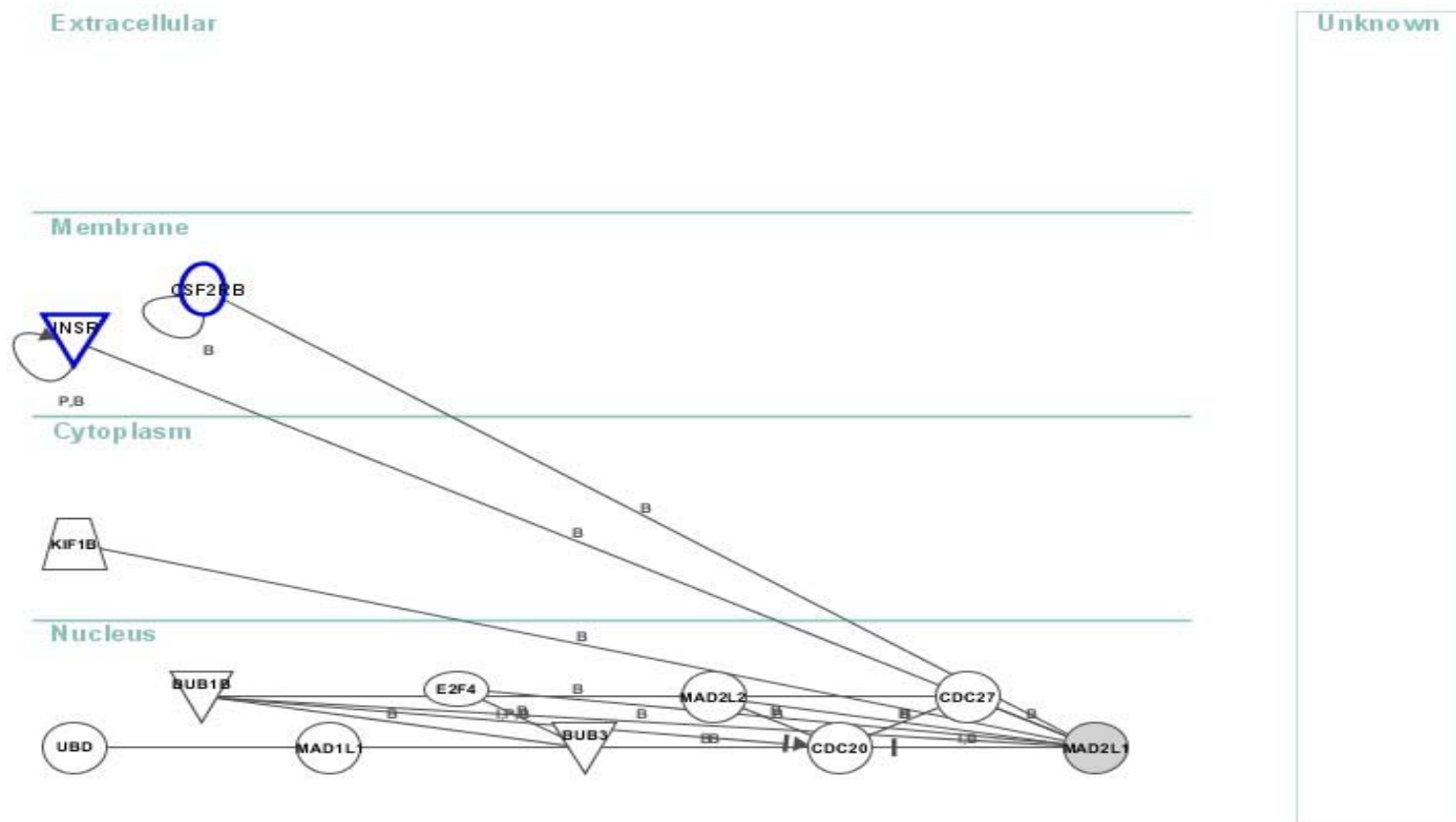
Network 7 – Cellular Layout

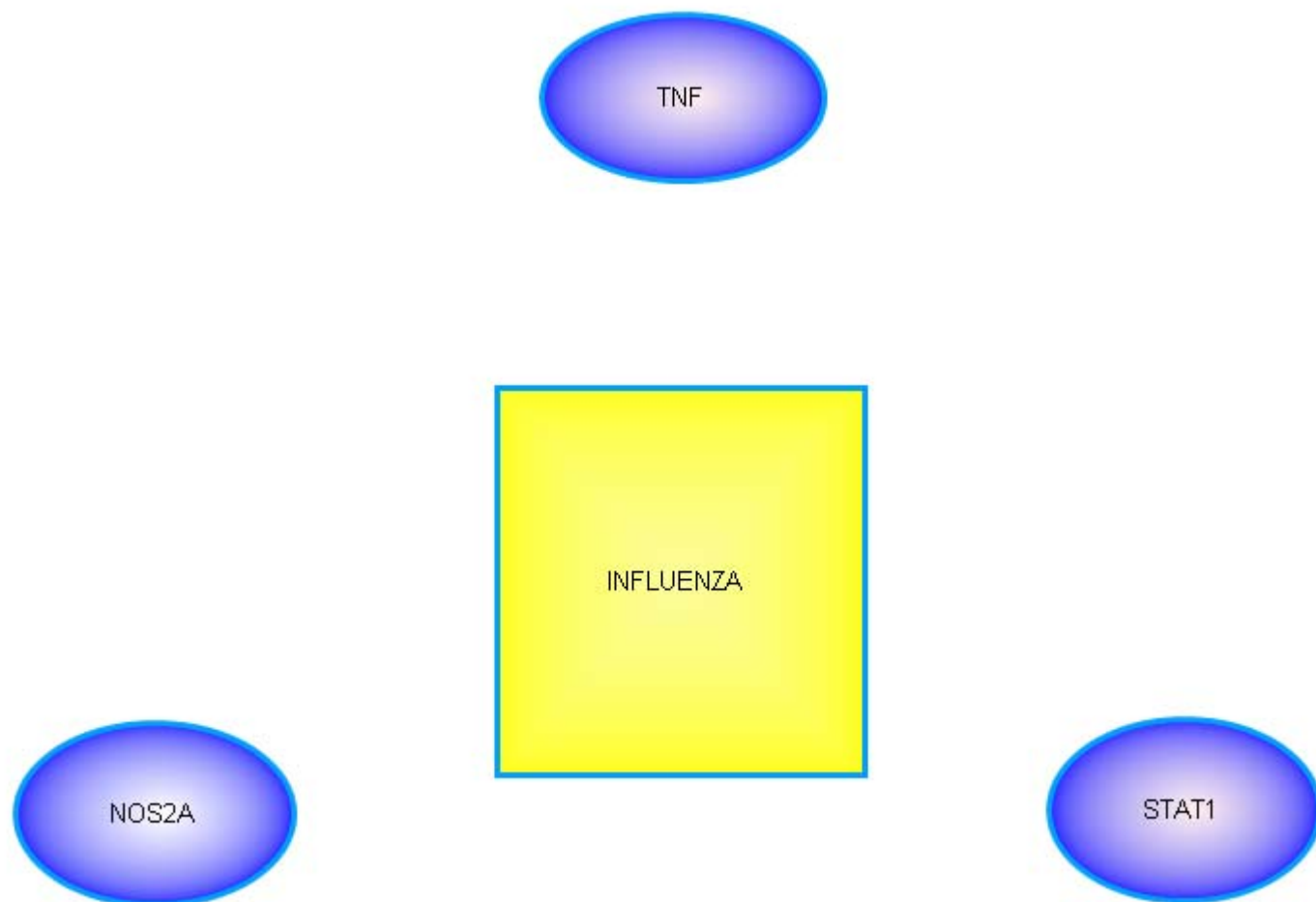


Network 24 – 20 genes



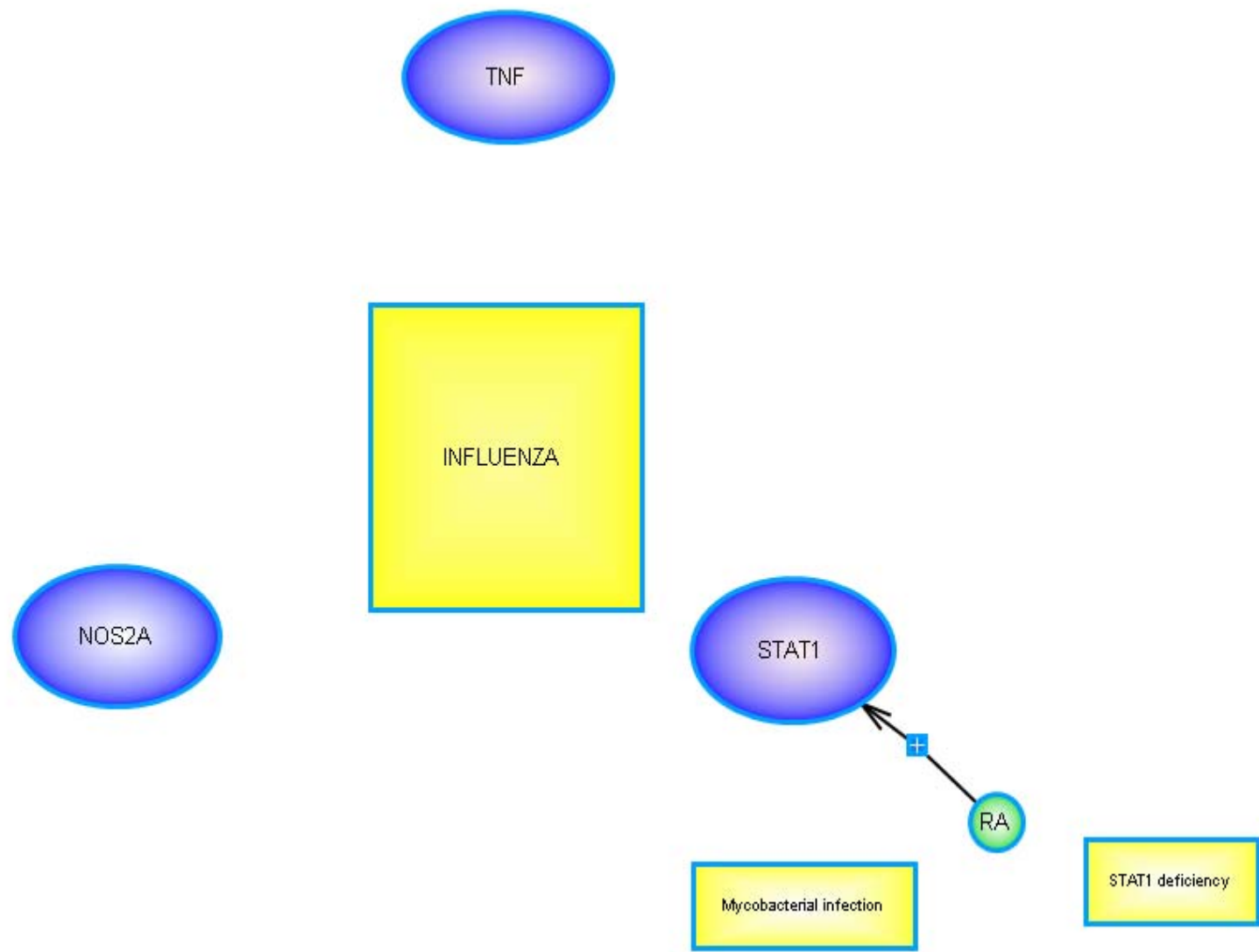
Network 24 – Cellular Layout





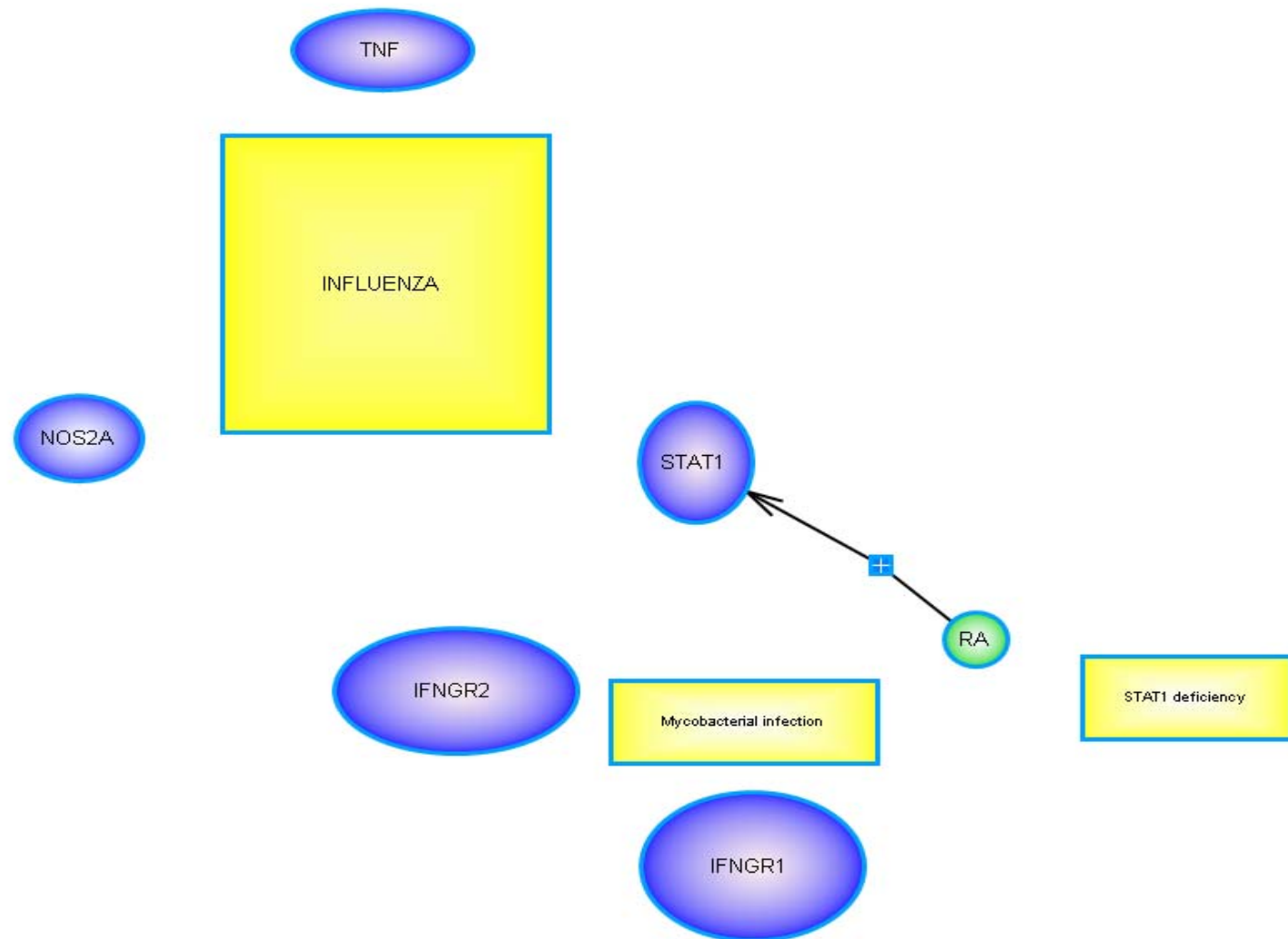
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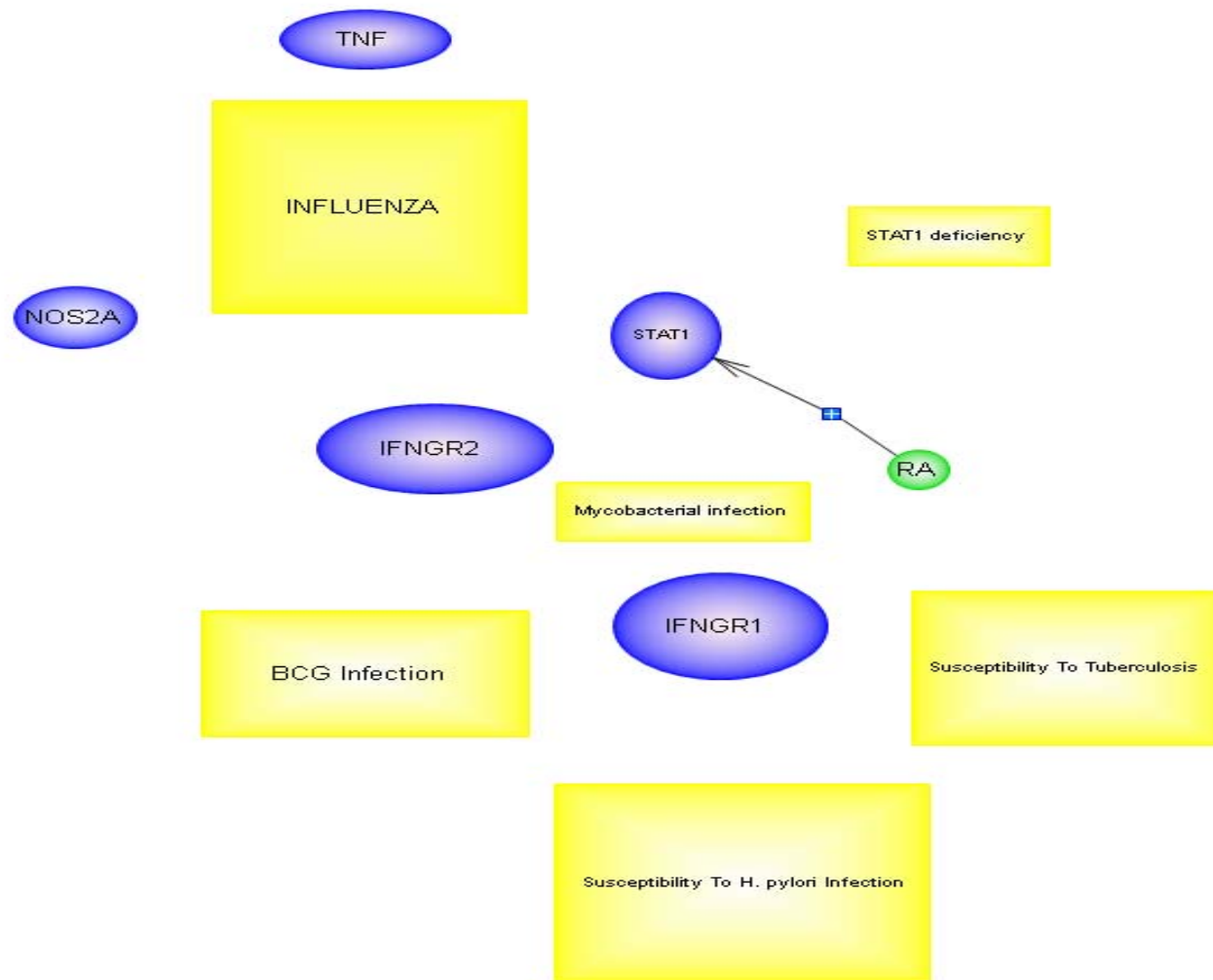
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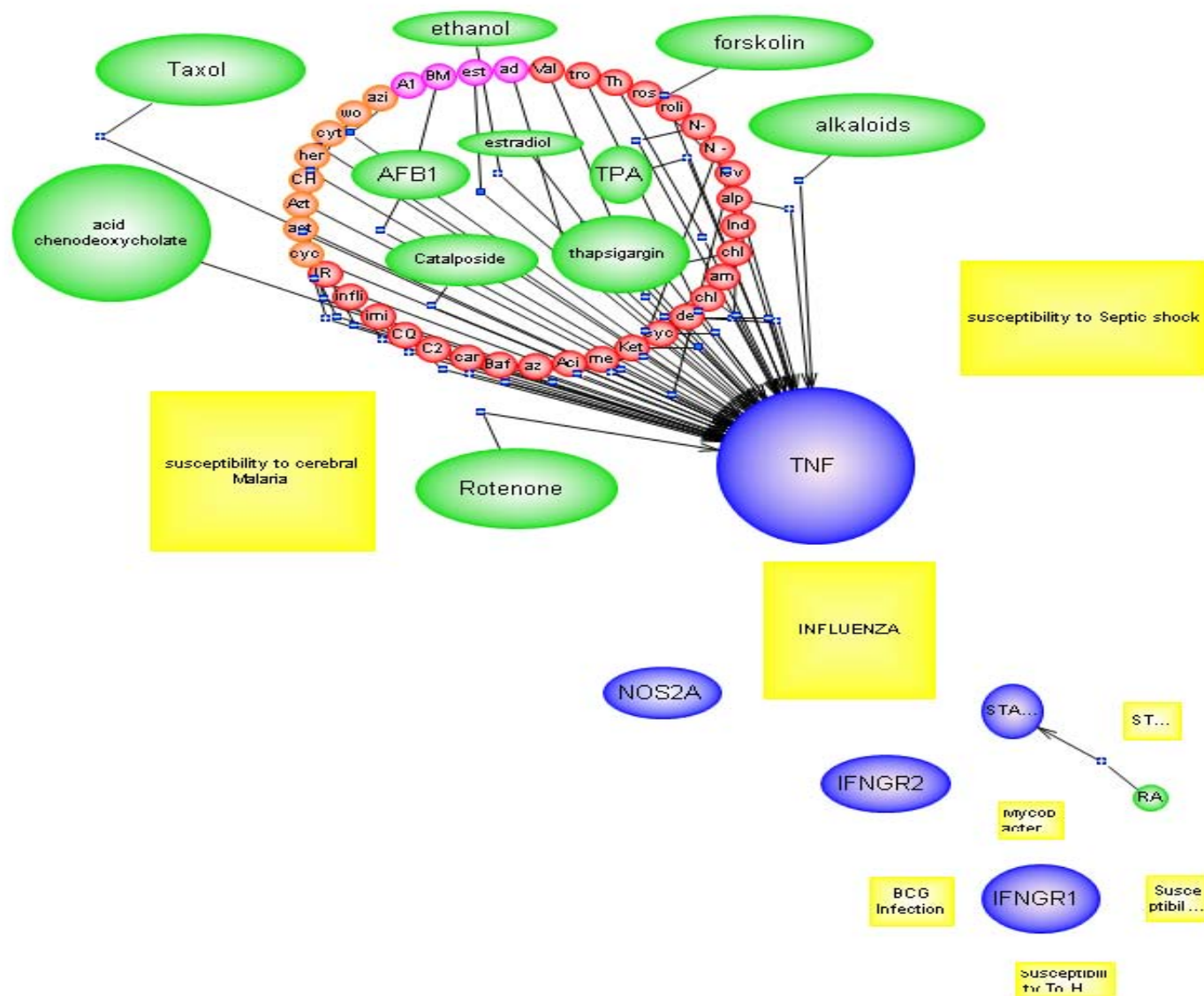
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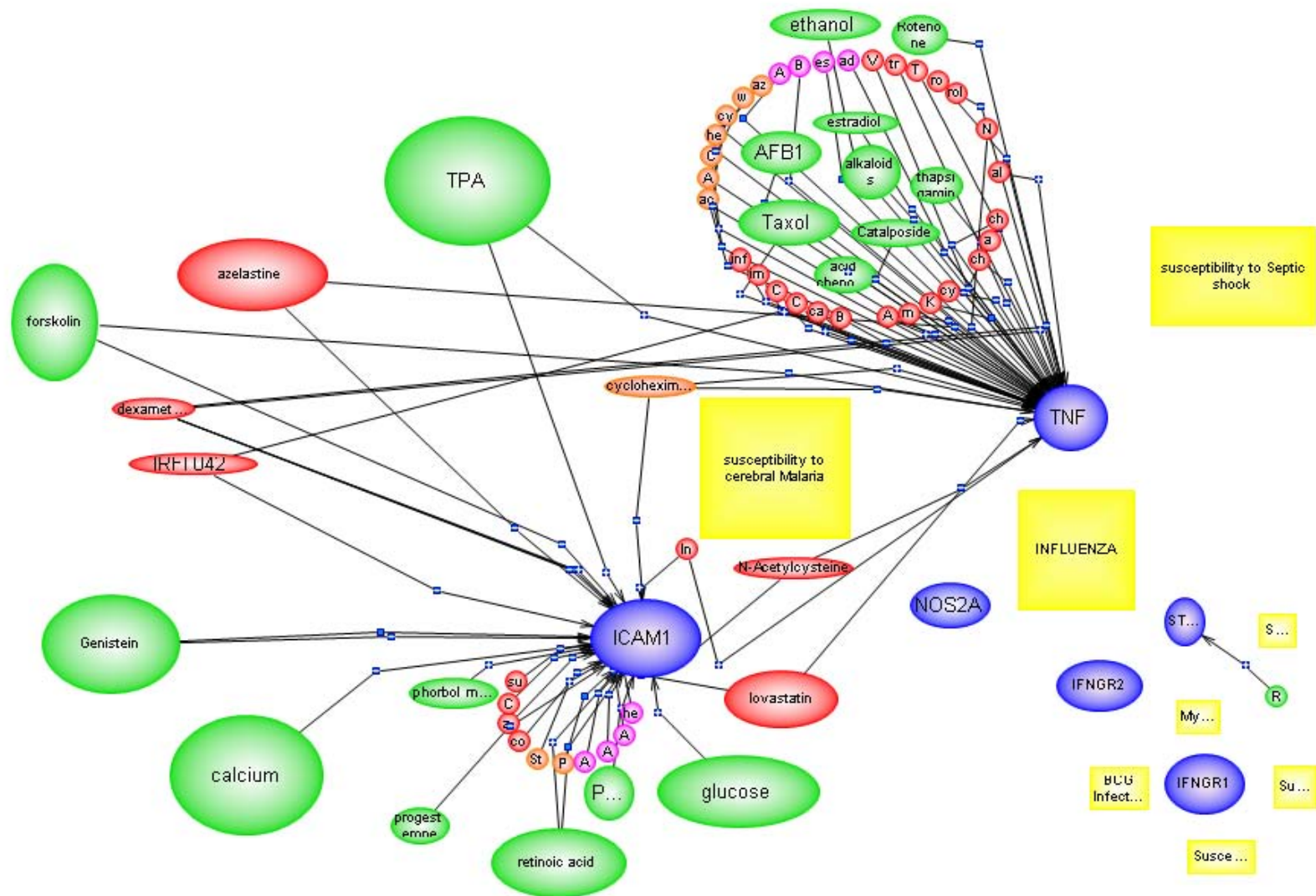
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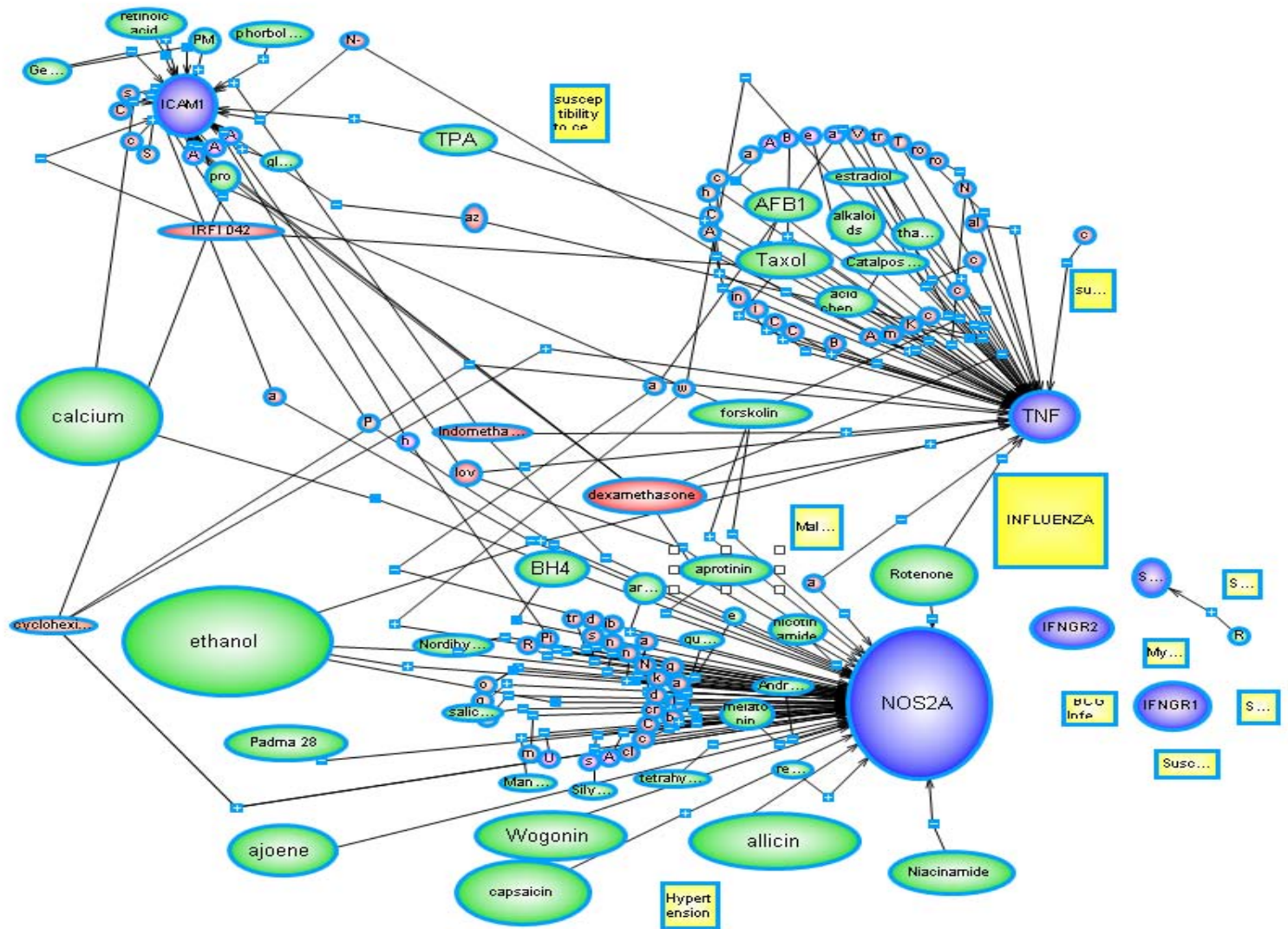
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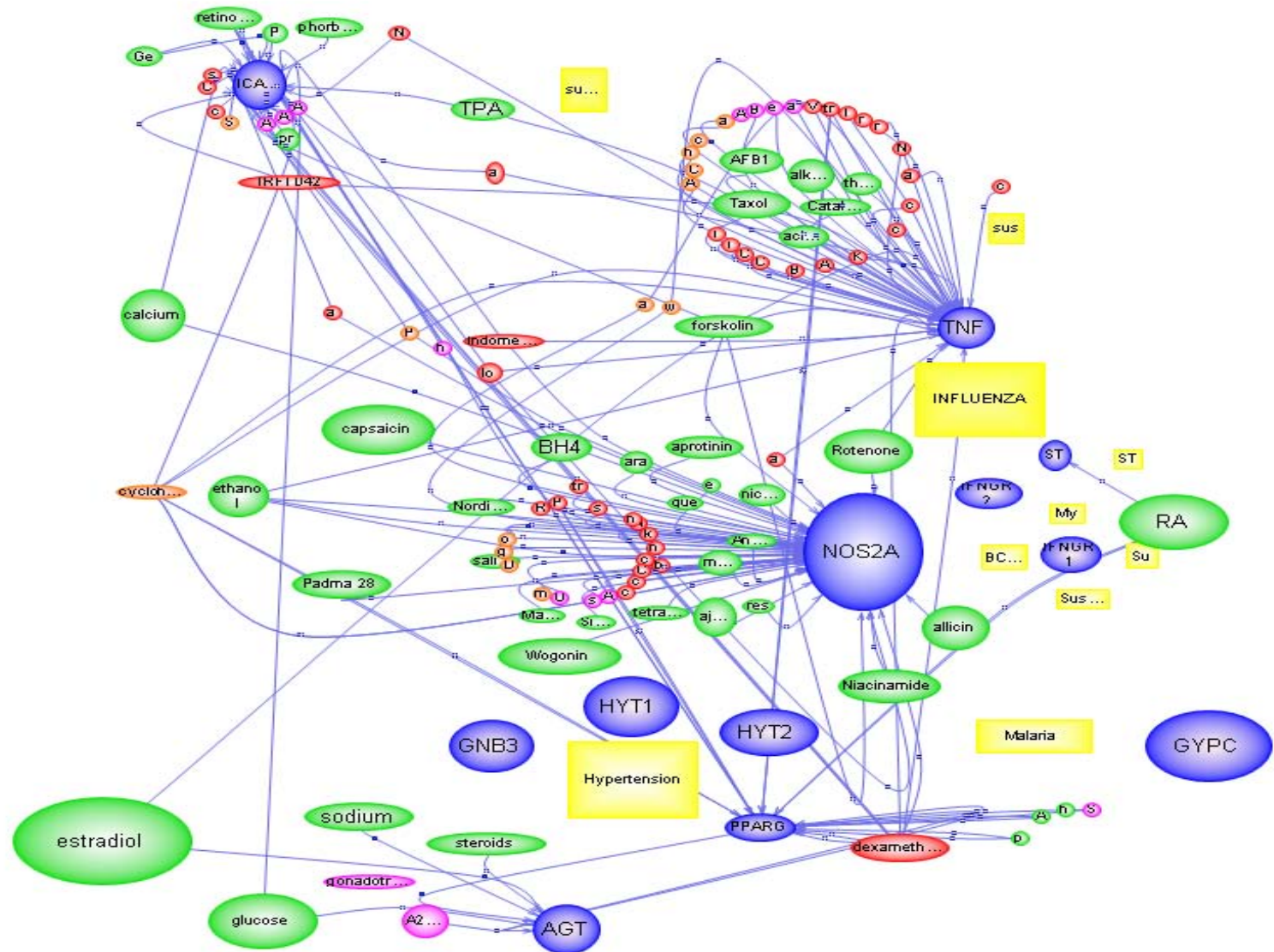
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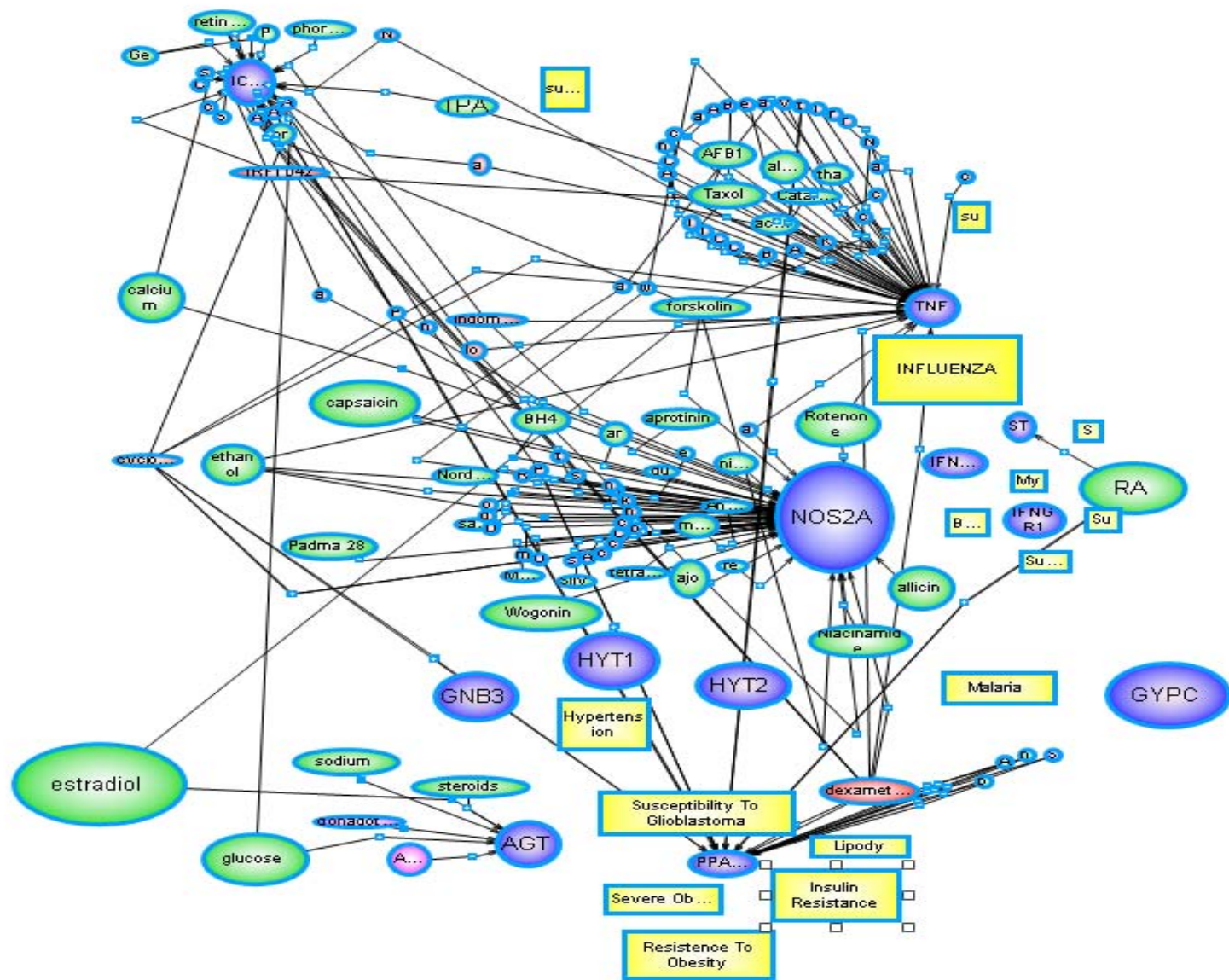
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Gene Choices

- Marginal
 - Nose Hair Growth
 - Finger Nail Growth
- No longer used
 - Infant tooth eruption
- Needed in future
 - Aging & Senescence

TOP SECRET

Operational Immediate

2 Oct 2004

2014 hrs local

From: Station Chief, Tehran

To: Director, Central Intelligence

Located, SE Iran, remnants of biological lab.

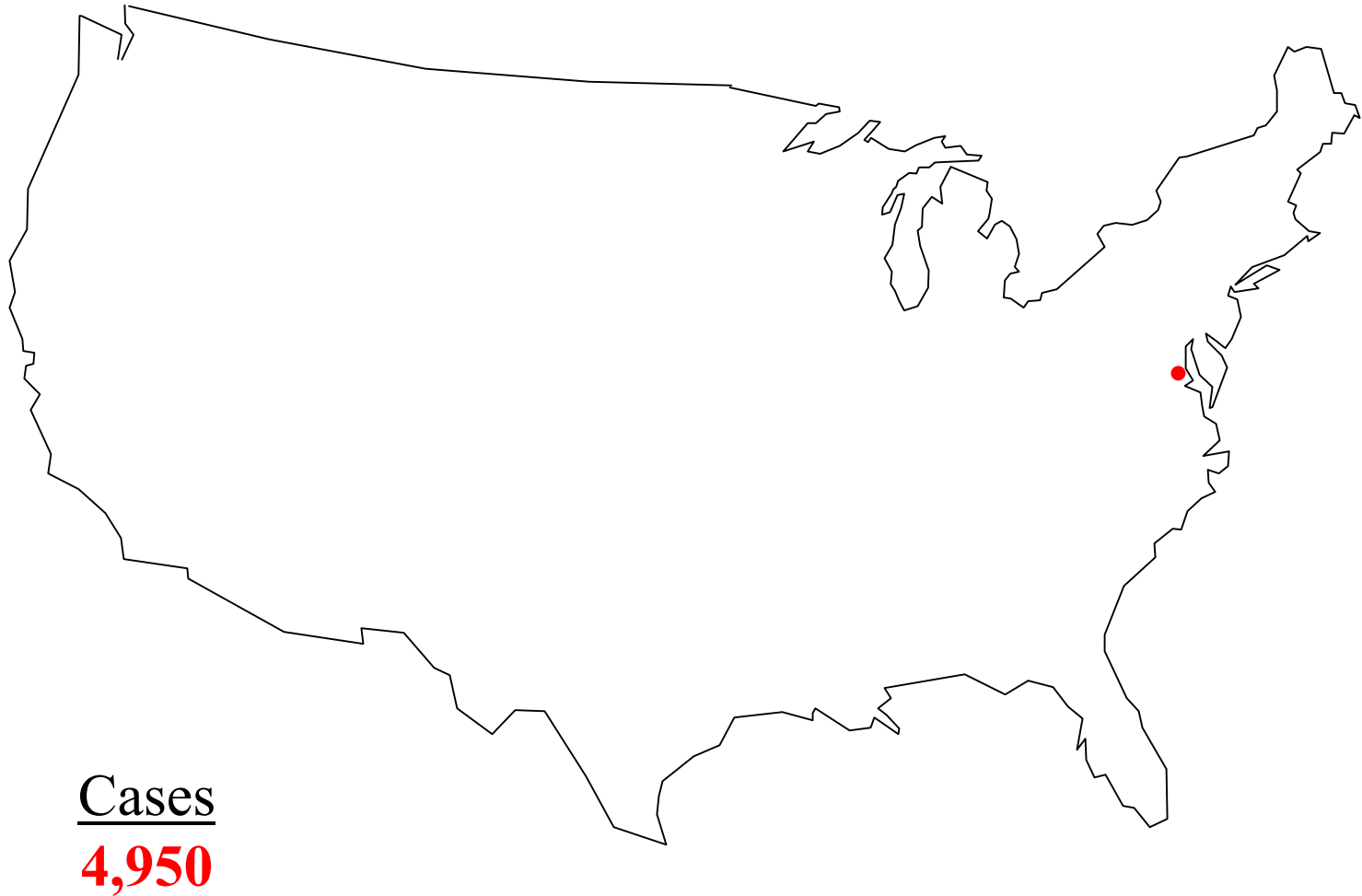
Samples found: new-variant influenza.
Extremely virulent. Spanish flu-like.

Target: Election day - Washington, DC

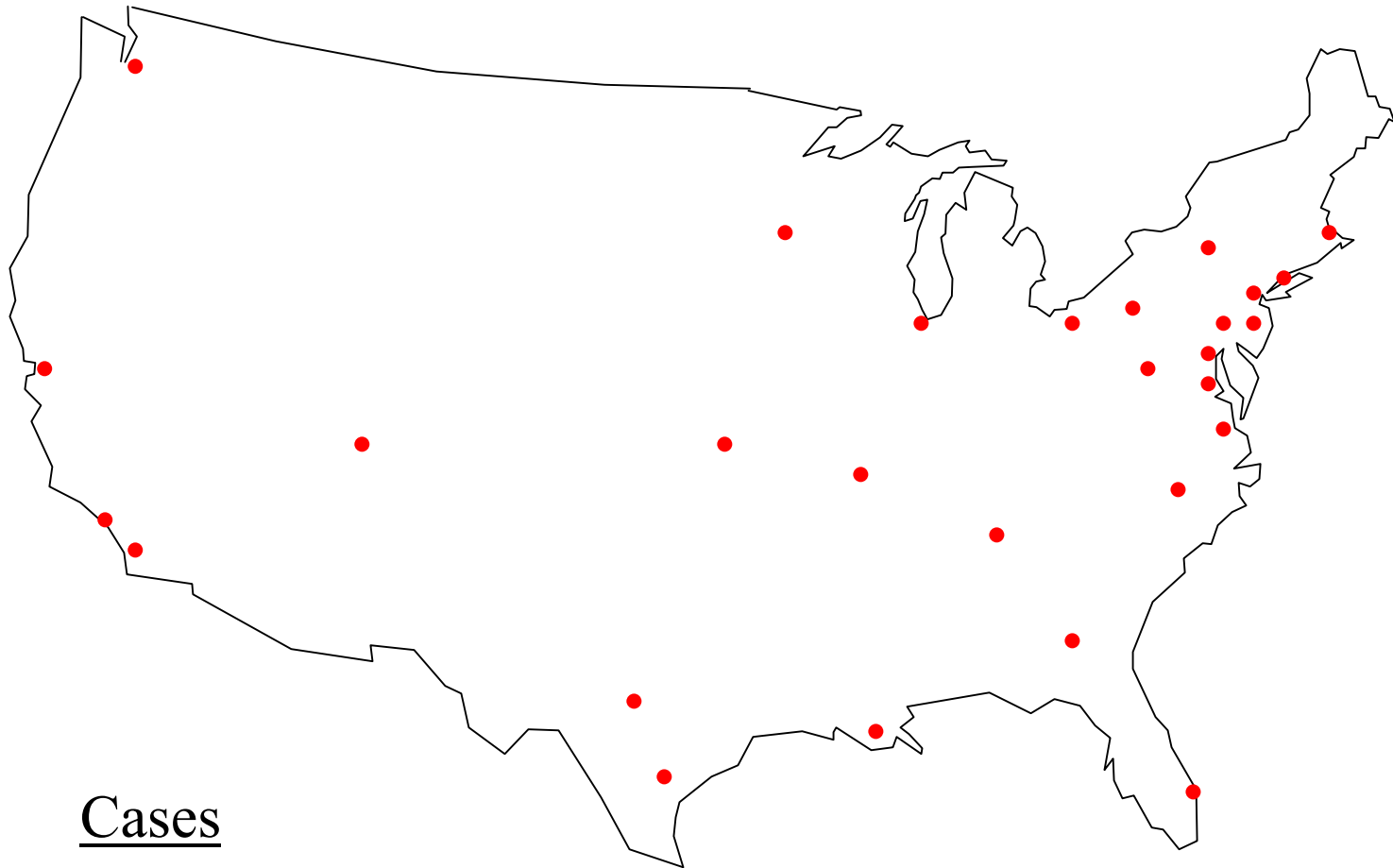
More follows.



02 November 2004



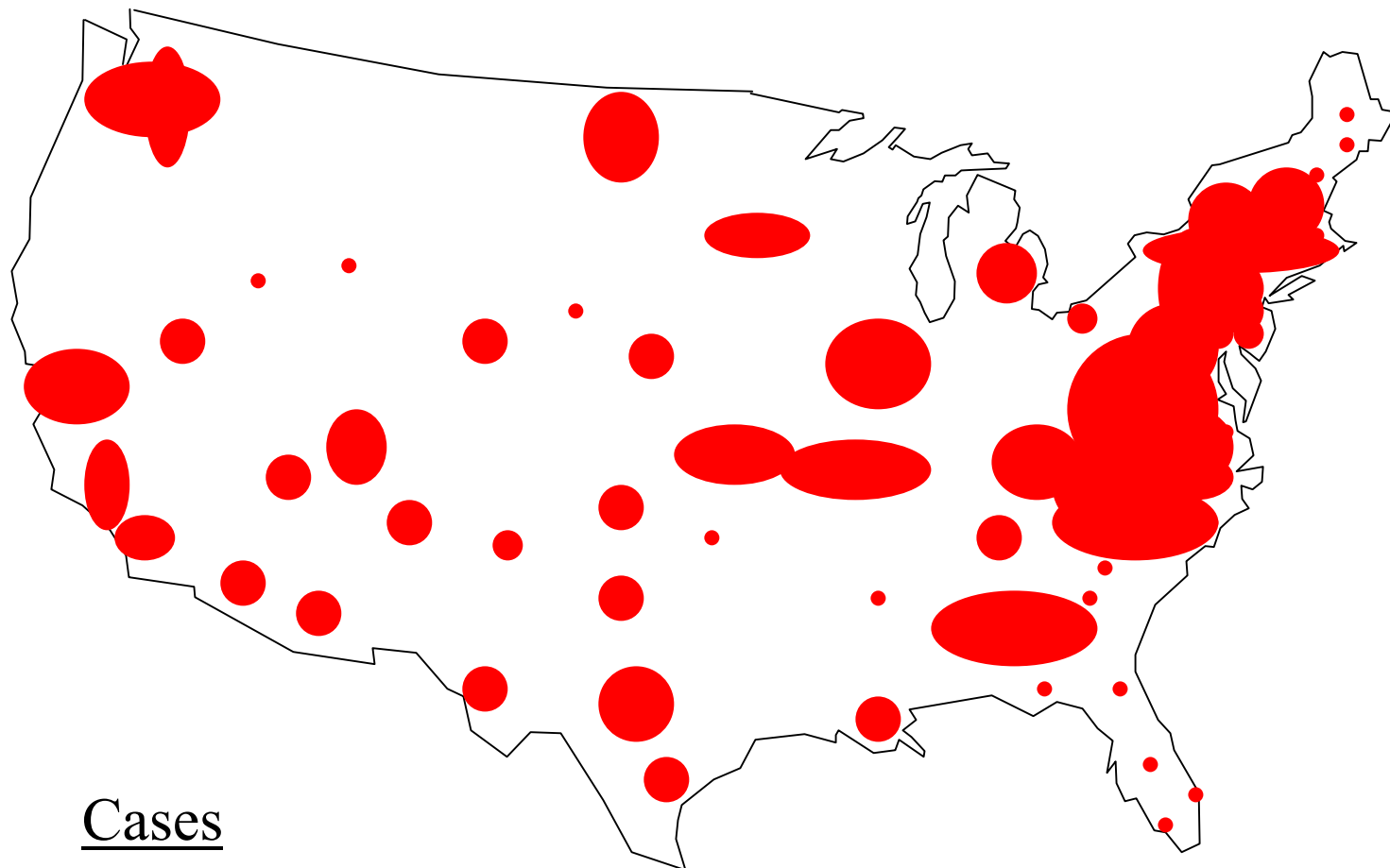
08 November 2004



Cases
89,377

DEAD
22,049

19 November 2004



Cases
2,276,231

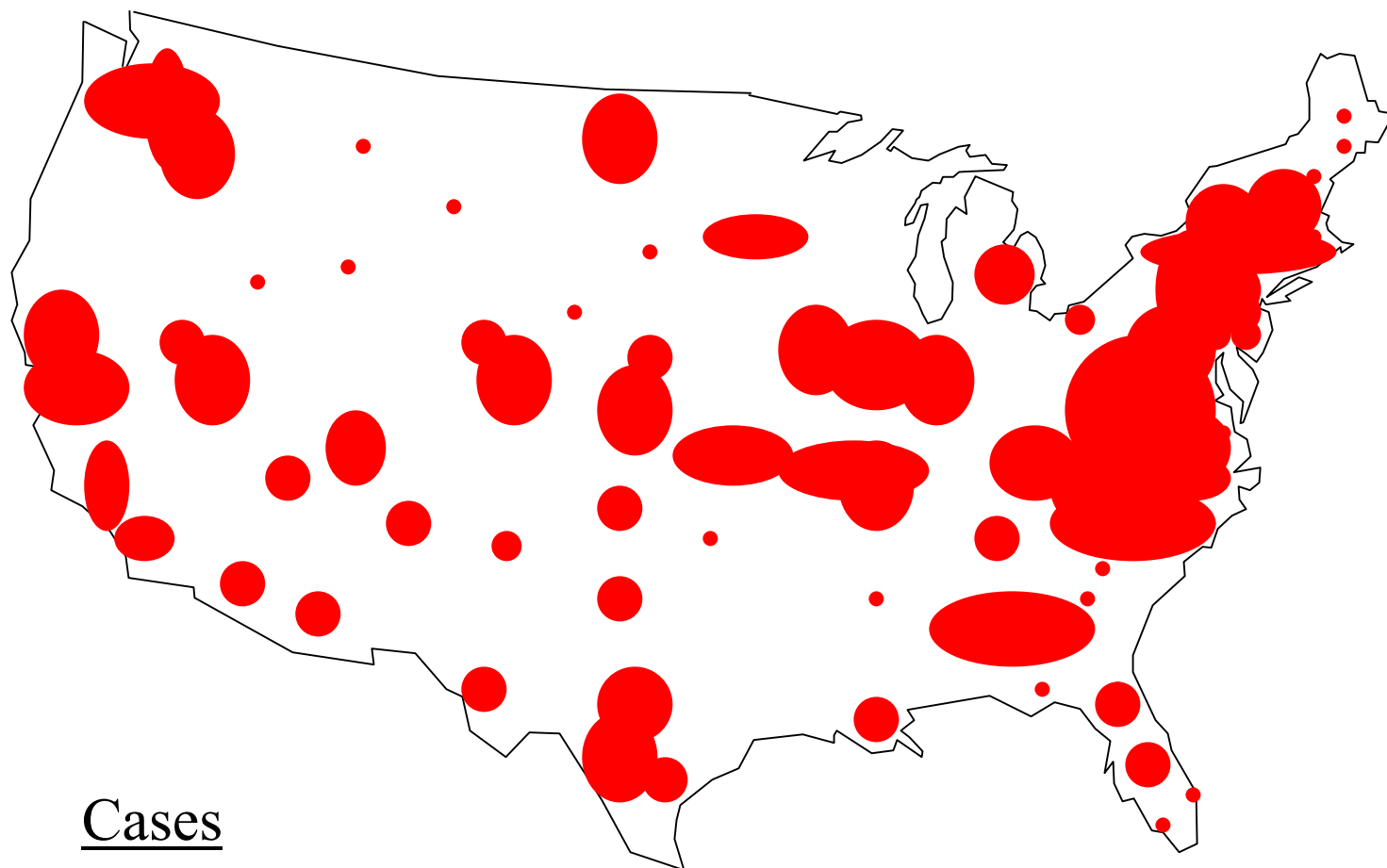
DEAD
562,941



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22 November 2004



Cases
4,191,126

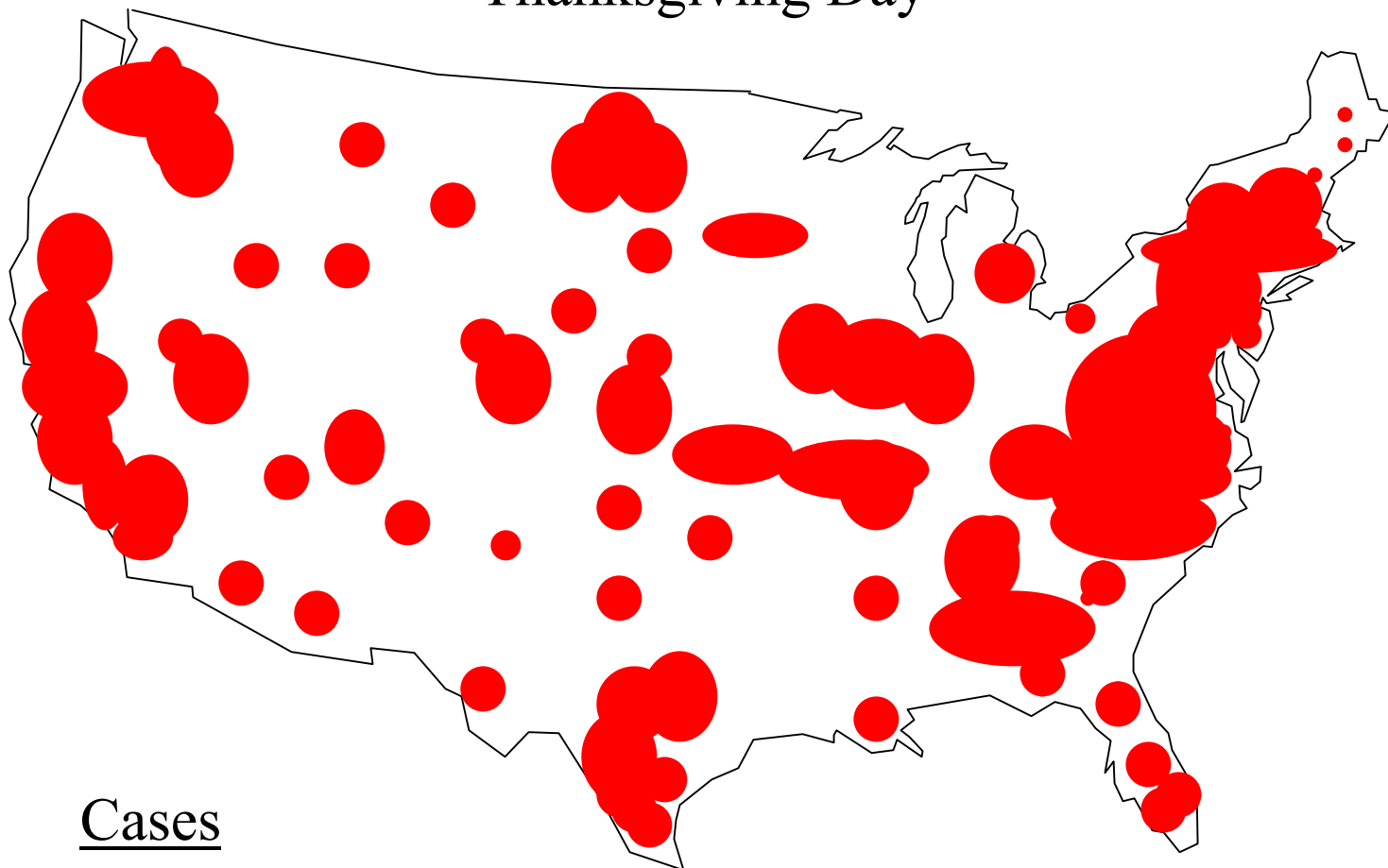
DEAD
1,003,222



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25 November 2004
Thanksgiving Day



Cases
7,285,725

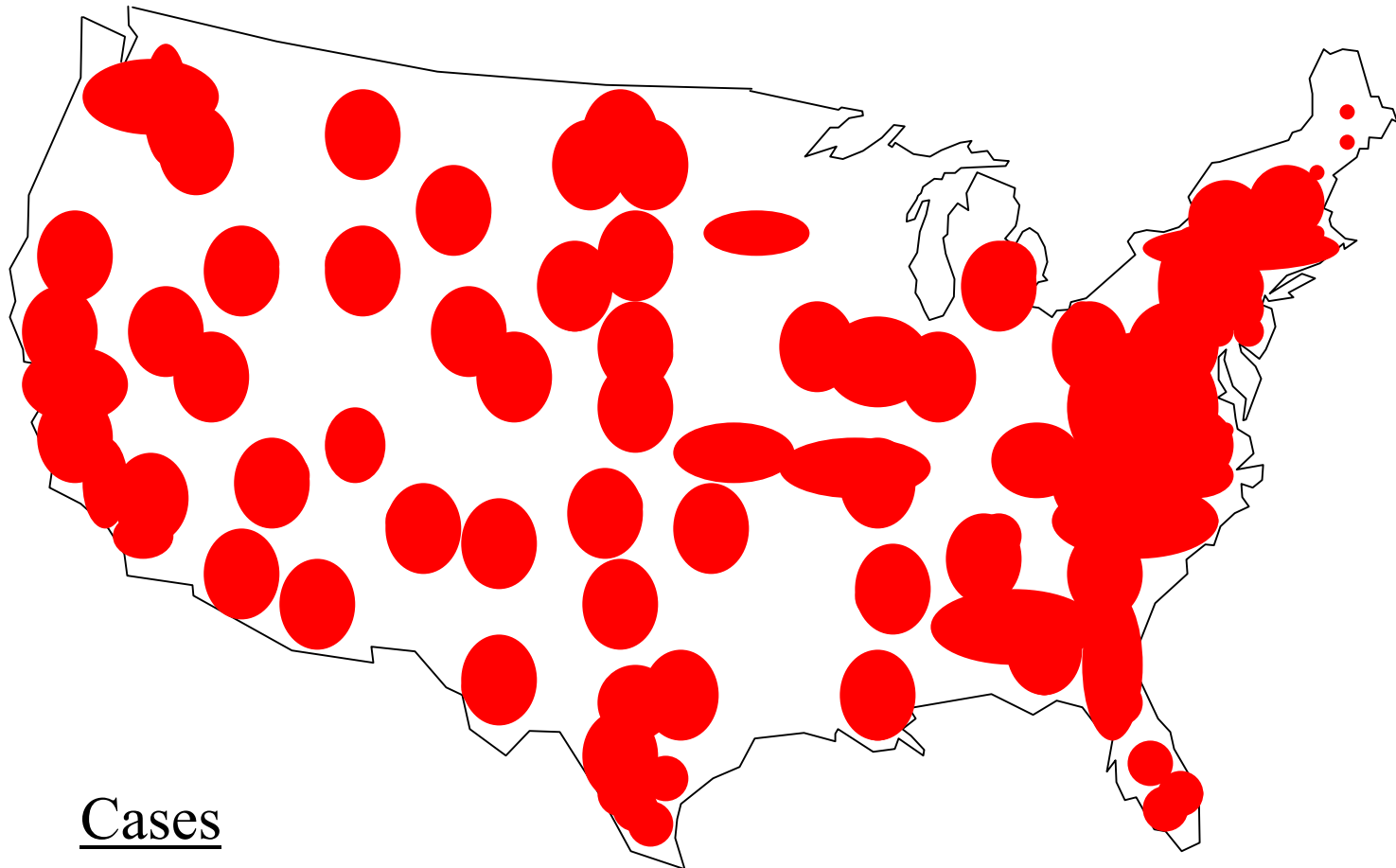
DEAD
1,679,434



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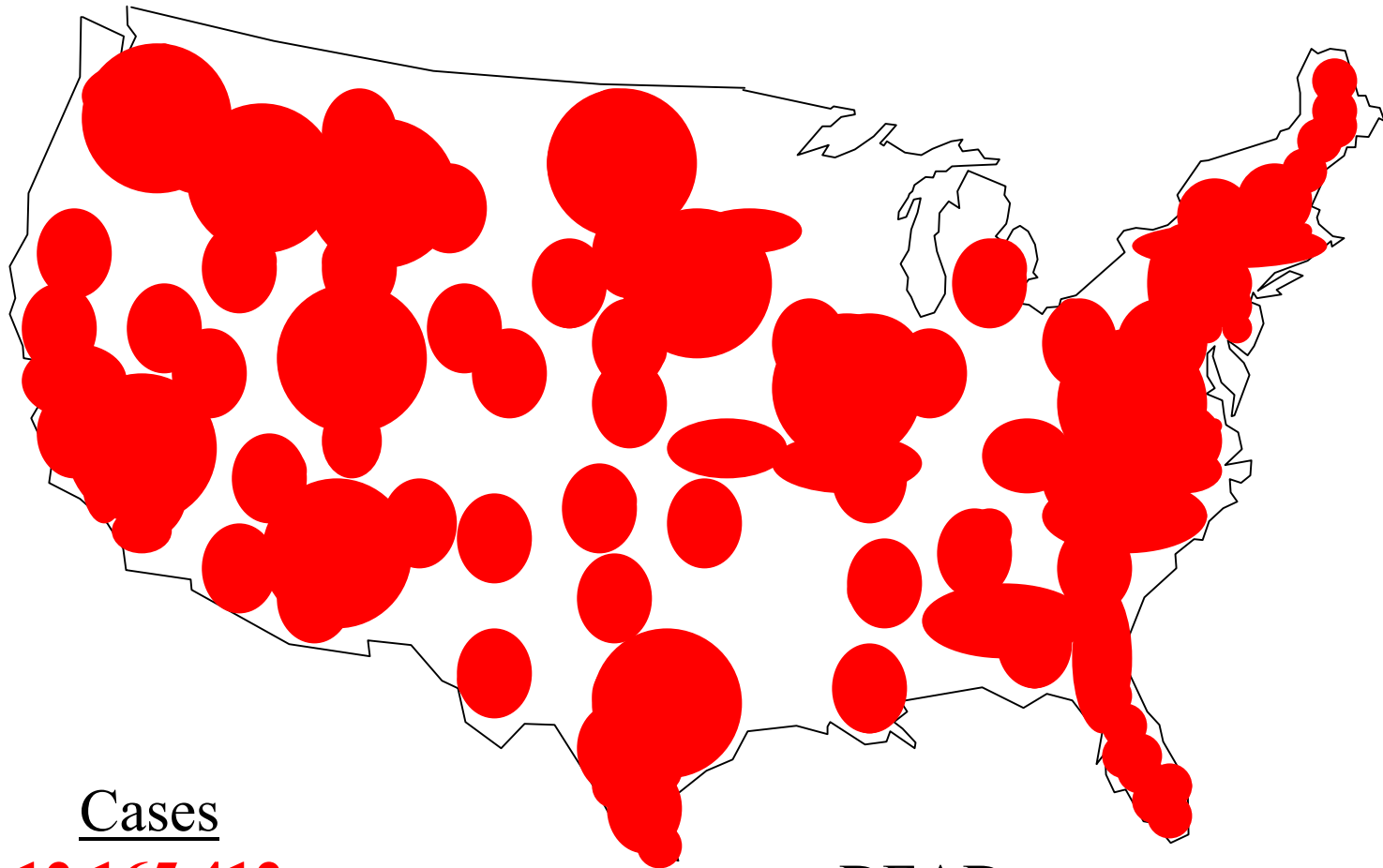
04 December 2004



Cases
10,120,438

DEAD
2,277,005

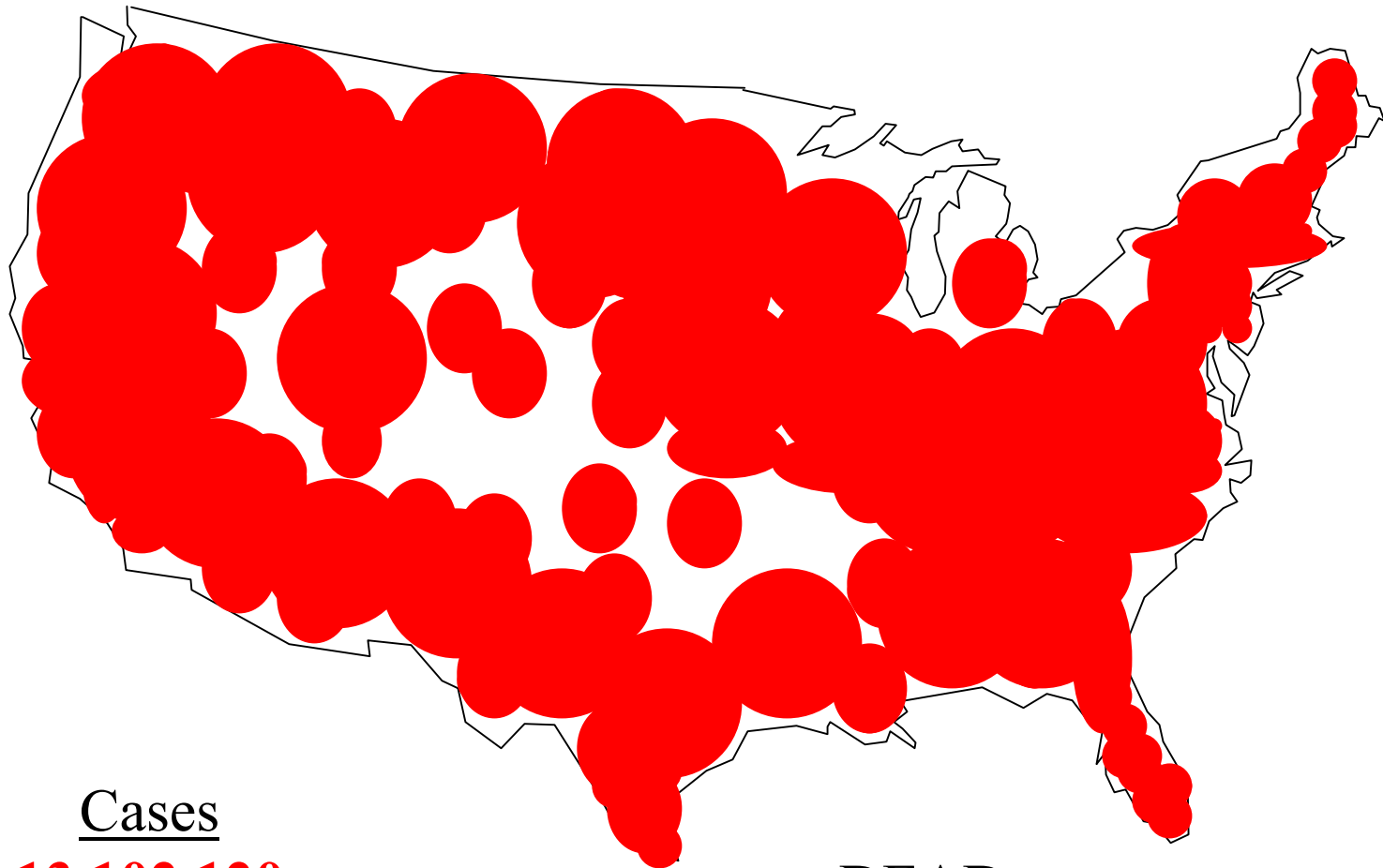
10 December 2004



Cases
12,165,412

DEAD
2,758,305

16 December 2004



Cases
13,102,120

DEAD
2,962,989

25 December 2004
CHRISTMAS DAY



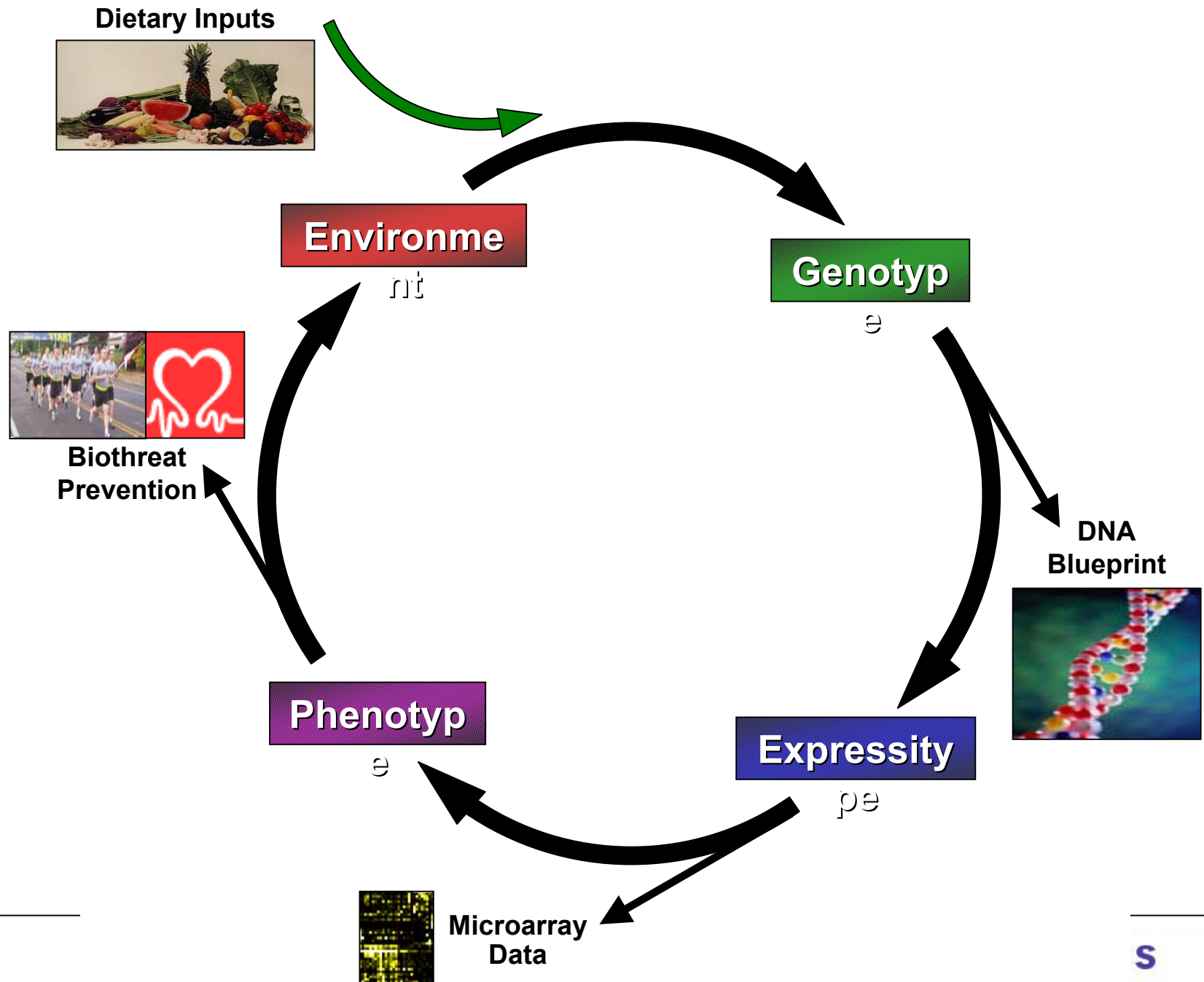
Cases
13,657,260

DEAD
3,081,035



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Advantages

NutriGenomic Anti-Viral (NAV) System

- Fast response time
- Uses existing foods & supplements
- Responds to new viral variants
- Can isolate effective combinations of dietary chemicals, for use in supplements, foods, pharmaceuticals
- Can respond to multiple-viral complex
- No apparent way to design around



AlphaGenics Team

- Fredric Abramson, President & CEO
- Jeffrey Lang, Director of Finance
- Jeffrey Kilgour, Chief Information Officer
- Siani Kayani, Digital Biologist
- Julie Nisson, Digital Biologist
- Meredith Libeg, Digital Biologist
- Mark Rockman, Systems Programmer

- “The flying machine which will really fly might be evolved by the combined and continuous efforts of mathematicians and mechanics in from one million to ten million years”
 - The New York Times
 - 9 October 1903

- “We started assembly today”
 - Orville Wright’s Diary
 - 9 October 1903



AlphaGenics, Inc.

www.AlphaGenics.com

THANK YOU

(240) 453-6242

Maryland Technology Incubator
9700 Great Seneca Highway
Rockville, MD 20850